Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTACMG1639

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS 3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS 4	APR 02	DWPI: New display format ALLSTR available
NEWS 5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS 6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS 7	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAplus
NEWS 8	APR 07	MEDLINE Coverage Is Extended Back to 1947
NEWS 9	JUN 16	WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS 10	JUN 18	DWPI: New coverage - French Granted Patents
NEWS 11	JUN 18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS 12	JUN 18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS 13	JUN 21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAplus, CASREACT,and MARPAT
NEWS 14	JUN 21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers -- EMBASE Classic on STN
NEWS 15	JUN 28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS 16	JUN 29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS 17	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS 18	JUL 26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica
NEWS 19	SEP 15	MEDLINE Cited References provide additional revelant records with no additional searching.
NEWS 20	OCT 04	Removal of Pre-IPC 8 data fields streamlines displays in USPATFULL, USPAT2, and USPATOLD.
NEWS 21	OCT 04	Precision of EMBASE searching enhanced with new chemical name field

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:51:56 ON 04 OCT 2010

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 15:52:09 ON 04 OCT 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 OCT 2010 HIGHEST RN 1244955-26-7
DICTIONARY FILE UPDATES: 3 OCT 2010 HIGHEST RN 1244955-26-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

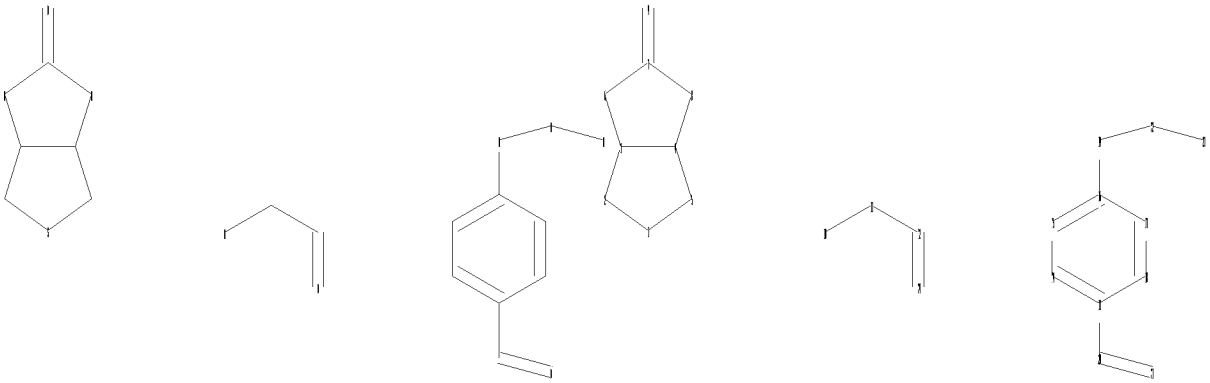
TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\STNEXP\Queries\biotin aa phenylazide.str

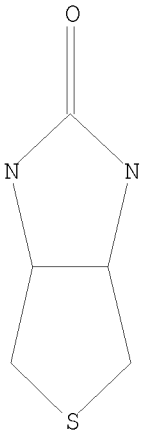


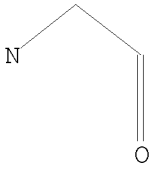
chain nodes :
9 10 11 12 19 20 21 22 23 24
ring nodes :
1 2 3 4 5 6 7 8 13 14 15 16 17 18
chain bonds :
7-9 10-11 11-12 12-24 13-20 16-19 19-22 20-21 22-23
ring bonds :
1-2 1-5 2-3 3-4 3-6 4-5 4-8 6-7 7-8 13-14 13-18 14-15 15-16 16-17
17-18
exact/norm bonds :
1-2 1-5 2-3 3-4 3-6 4-5 4-8 6-7 7-8 7-9 10-11 12-24 16-19 19-22 20-21
22-23
exact bonds :
11-12 13-20
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18

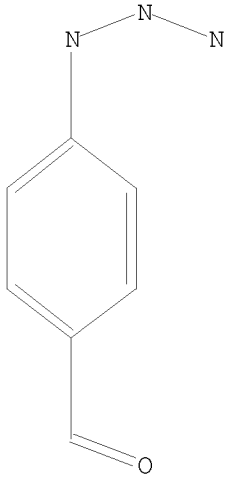
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR







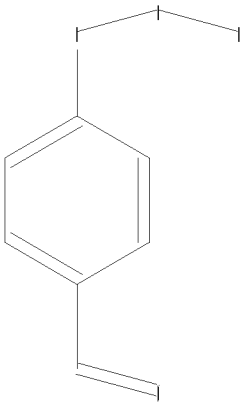
Structure attributes must be viewed using STN Express query preparation.

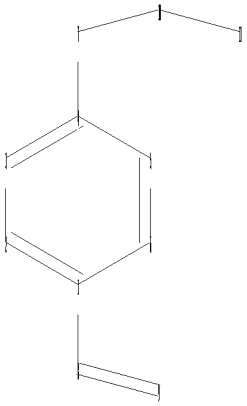
=> s l1 full
FULL SEARCH INITIATED 15:52:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 248 TO ITERATE

100.0% PROCESSED 248 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>
Uploading C:\Program Files\STNEXP\Queries\phenyl azide.str





chain nodes :
7 8 9 10 11
ring nodes :
1 2 3 4 5 6

```
chain bonds :
1-8  4-7  7-10  8-9  10-11
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
4-7  7-10  8-9  10-11
exact bonds :
1-8
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS



L3      STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3              STR
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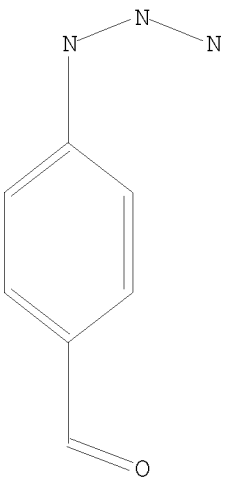


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Structure attributes must be viewed using STN Express query preparation.


=> s l3 full
FULL SEARCH INITIATED 15:53:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    30830 TO ITERATE

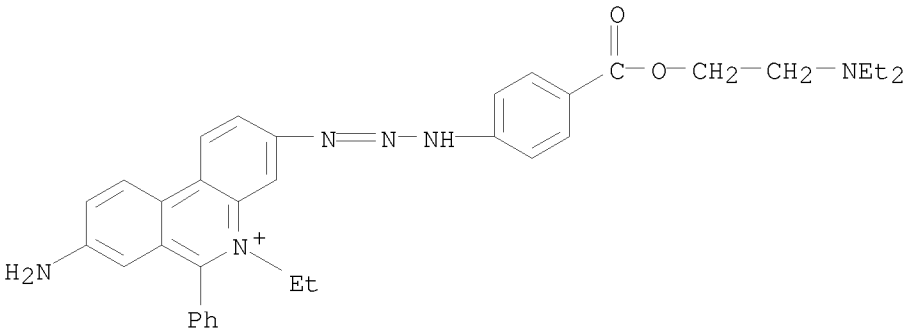
100.0% PROCESSED    30830 ITERATIONS                              248 ANSWERS
SEARCH TIME: 00.00.01

L4          248 SEA SSS FUL L3

=> d scan

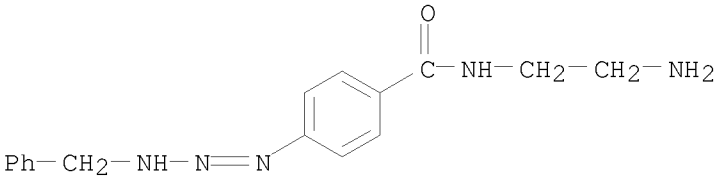
L4   248 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   Phenanthridinium, 8-amino-3-[3-[4-[[2-
     (diethylamino)ethoxy]carbonyl]phenyl]-2-triazen-1-yl]-5-ethyl-6-phenyl-
```

MF C34 H37 N6 O2
CI COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

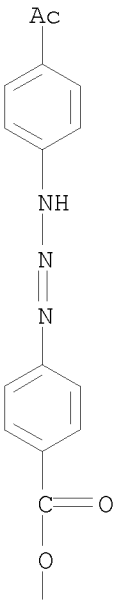
L4 248 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzamide, N-(2-aminoethyl)-4-[3-(phenylmethyl)-2-triazen-1-yl]-
MF C16 H19 N5 O



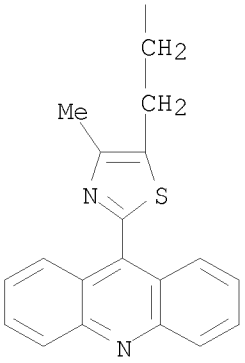
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 248 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzoic acid, 4-[3-(4-acetylphenyl)-2-triazen-1-yl]-,
    2-[2-(9-acridinyl)-4-methyl-5-thiazolyl]ethyl ester
MF C34 H27 N5 O3 S

PAGE 1-A



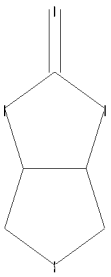
PAGE 2-A

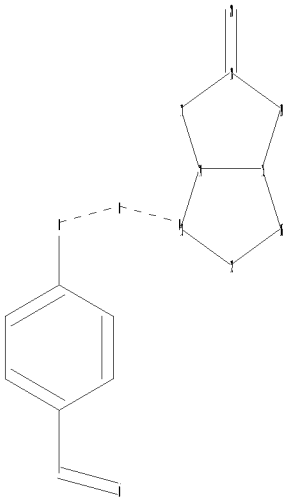


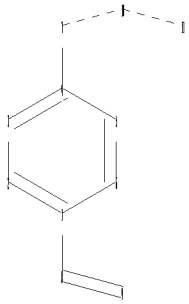
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Program Files\STNEXP\Queries\biotin phenylazide.str





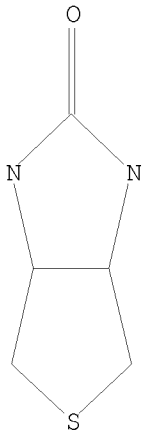


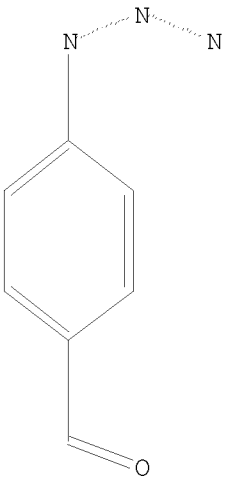
chain nodes :
7 8 9 10 11 20
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 18 19
chain bonds :
1-8 4-7 7-10 8-9 10-11 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 13-14 14-15 14-17 15-16 15-19
17-18 18-19
exact/norm bonds :
4-7 7-10 8-9 10-11 12-13 12-16 13-14 14-15 14-17 15-16 15-19 17-18
18-19 18-20
exact bonds :
1-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR





Structure attributes must be viewed using STN Express query preparation.

```
=> s l5 full
FULL SEARCH INITIATED 15:55:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      248 TO ITERATE

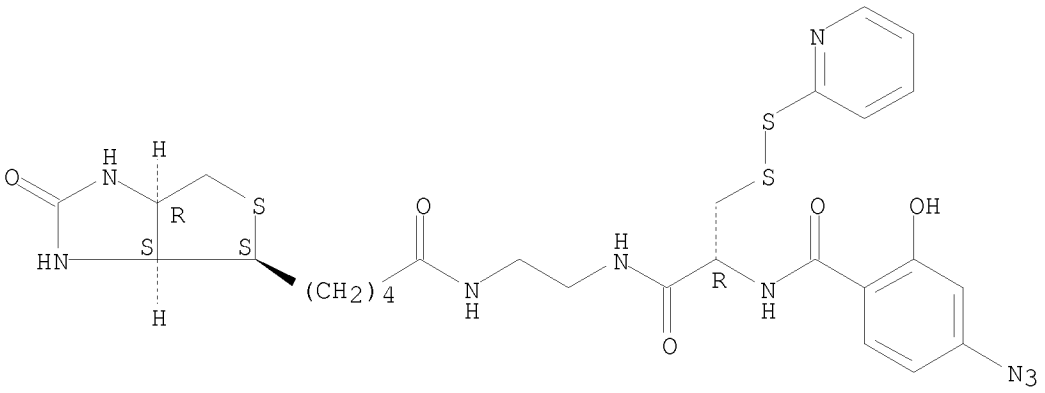
100.0% PROCESSED      248 ITERATIONS                                99 ANSWERS
SEARCH TIME: 00.00.01

L6            99 SEA SSS FUL L5

=> d scan

L6   99 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   1H-Thieno[3,4-d]imidazole-4-pentanamide,
     N-[2-[[(2R)-2-[(4-azido-2-hydroxybenzoyl)amino]-1-oxo-3-(2-
     pyridinyldithio)propyl]amino]ethyl]hexahydro-2-oxo-, (3aS,4S,6aR)-
MF   C27 H33 N9 O5 S3

Absolute stereochemistry.
```

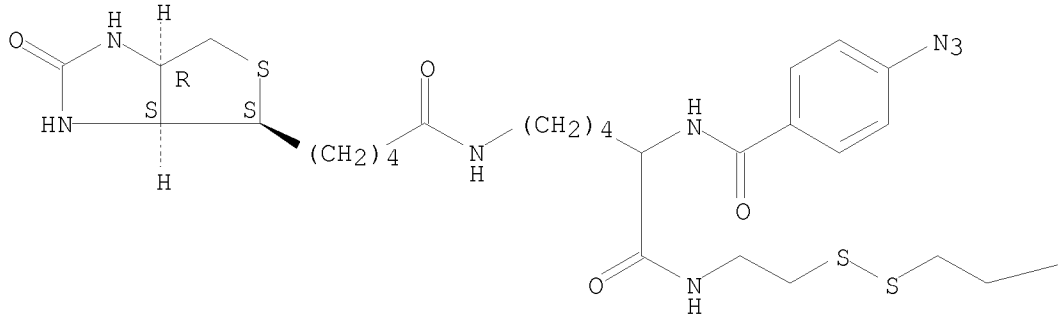


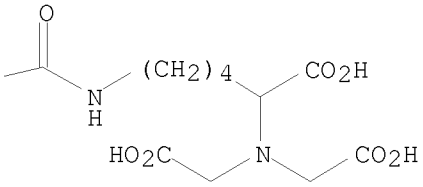
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 99 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 13,14-Dithia-3,9,17,24-tetraazanonacosanoic acid,
19-[(4-azidobenzoyl)amino]-4-carboxy-3-(carboxymethyl)-29-[(3aS,4S,6aR)-
hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-10,18,25-trioxo-
MF C38 H56 N10 O11 S3

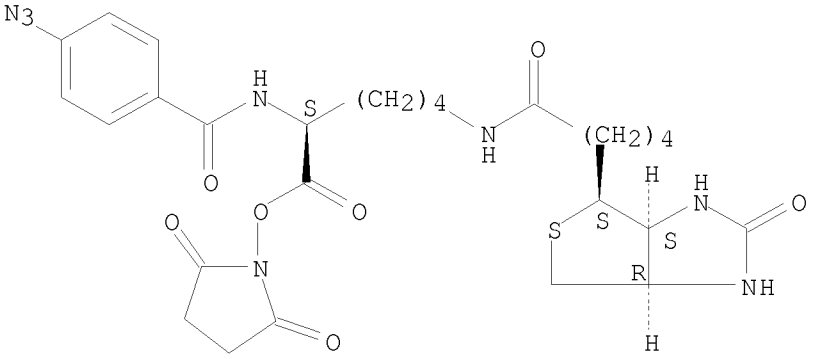
Absolute stereochemistry.





L6 99 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azidobenzoyl)amino]-6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI)
MF C27 H34 N8 O7 S

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 15:51:56 ON 04 OCT 2010)

FILE 'REGISTRY' ENTERED AT 15:52:09 ON 04 OCT 2010
L1 STRUCTURE UPLOADED
L2 0 S L1 FULL
L3 STRUCTURE UPLOADED
L4 248 S L3 FULL
L5 STRUCTURE UPLOADED
L6 99 S L5 FULL

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 576.58 576.80

FILE 'CAPLUS' ENTERED AT 15:56:08 ON 04 OCT 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 4 Oct 2010 VOL 153 ISS 15
FILE LAST UPDATED: 3 Oct 2010 (20101003/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

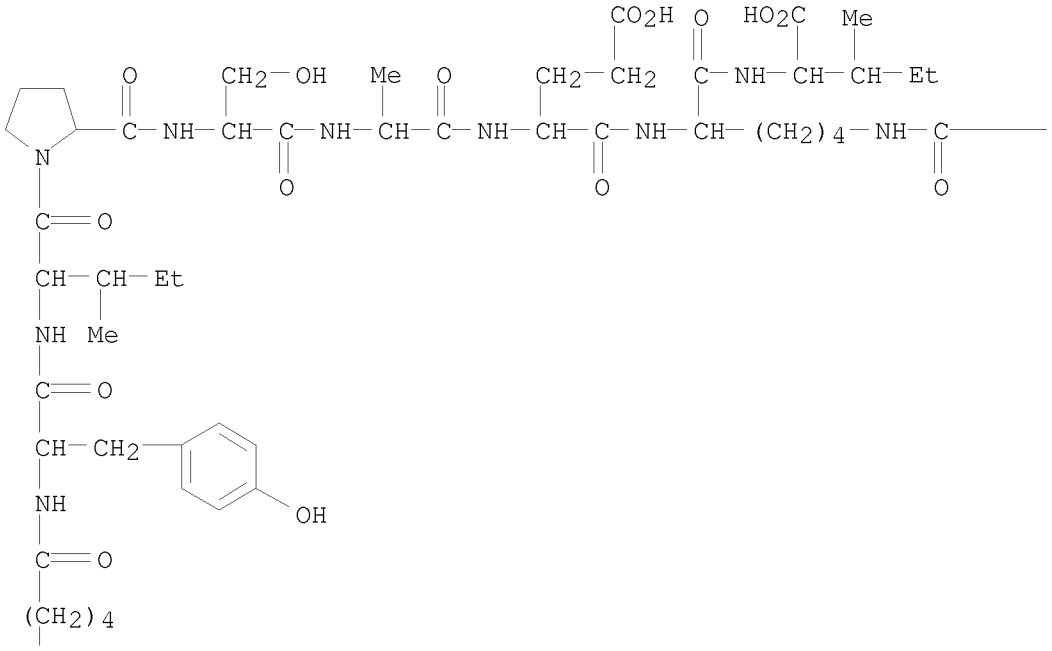
```
=> s l6
L7          60 L6

=> s l7 and py<=2004
      25159329 PY<=2004
L8          33 L7 AND PY<=2004

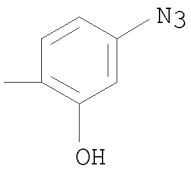
=> d ti hitstr 23-33

L8   ANSWER 23 OF 33  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Photoaffinity labeling of the T cell receptor on living cytotoxic T
     lymphocytes
IT   147557-16-2     149235-89-2
     RL: BIOL (Biological study)
        (in photoaffinity labeling of T-cell receptor on cytotoxic
        T-lymphocytes)
RN   147557-16-2  CAPLUS
CN   L-Isoleucine, N-[N6-(4-azido-2-hydroxyiodobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-
     (hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-
     isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-,
     [3aS-(3aα,4β,6aα)]- (9CI)  (CA INDEX NAME)
```

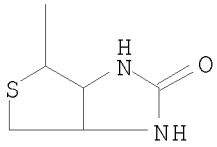
PAGE 1-A



PAGE 1-B



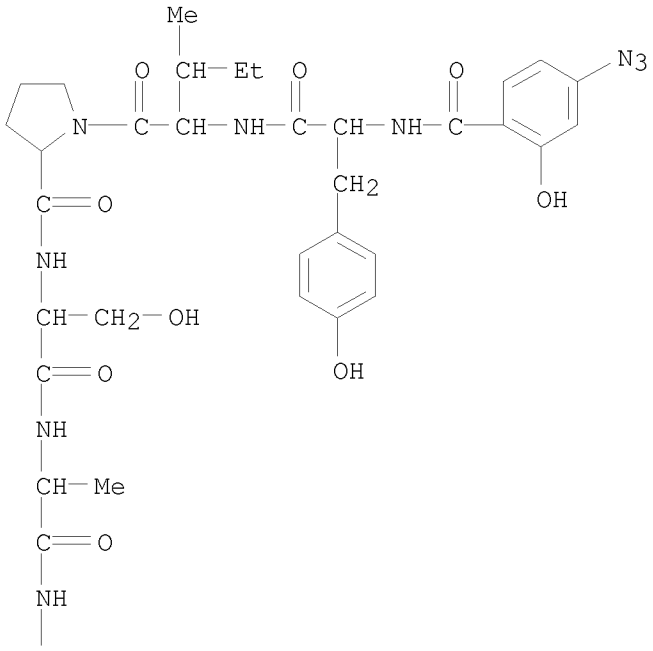
PAGE 2-A



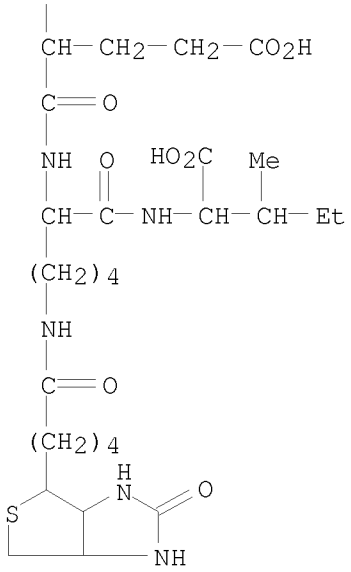
D1— I

RN 149235-89-2 CAPLUS
CN L-Isoleucine, N-[N2-[N-[N-[N-[1-[N-[N-(4-azido-2-hydroxyiodobenzoyl)-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



PAGE 3-A

D1— I

L8 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Differential T cell receptor photoaffinity labeling among H-2Kd restricted cytotoxic T lymphocyte clones specific for a photoreactive peptide

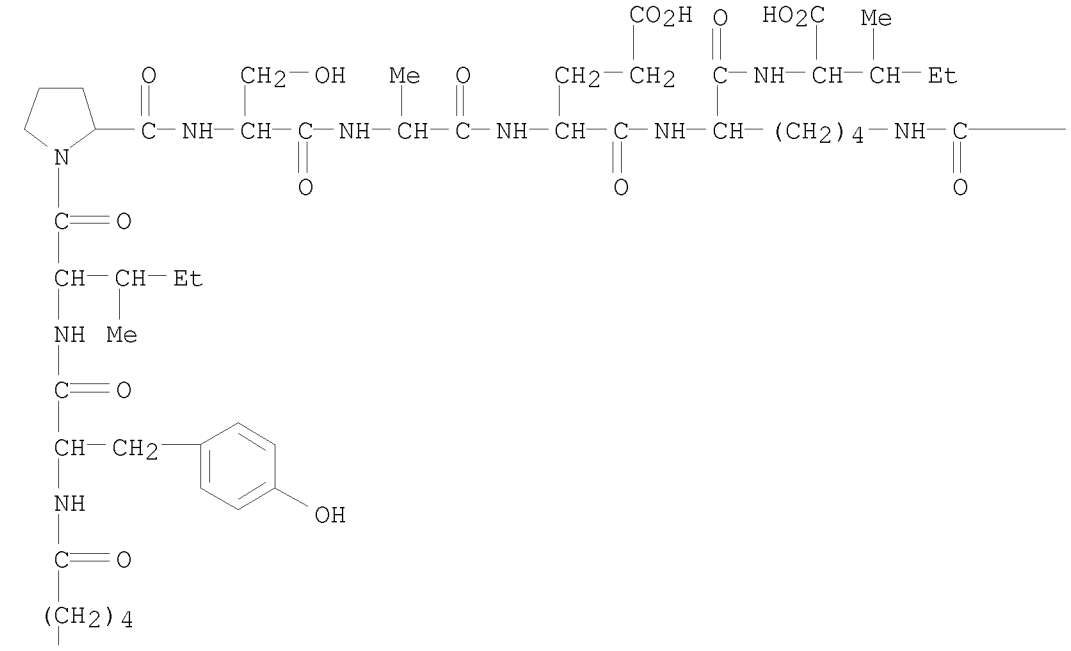
derivative. Labeling of the α-chain correlates with Jα segment usage

IT 147557-16-2 147794-88-5 147794-89-6
RL: BIOL (Biological study)
(cytotoxic T-lymphocyte to, TCR receptor α-chain J segment usage by)

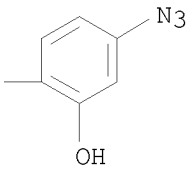
RN 147557-16-2 CAPLUS

CN L-Isoleucine, N-[N6-(4-azido-2-hydroxyiodobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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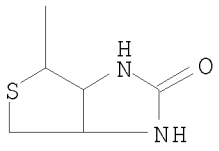
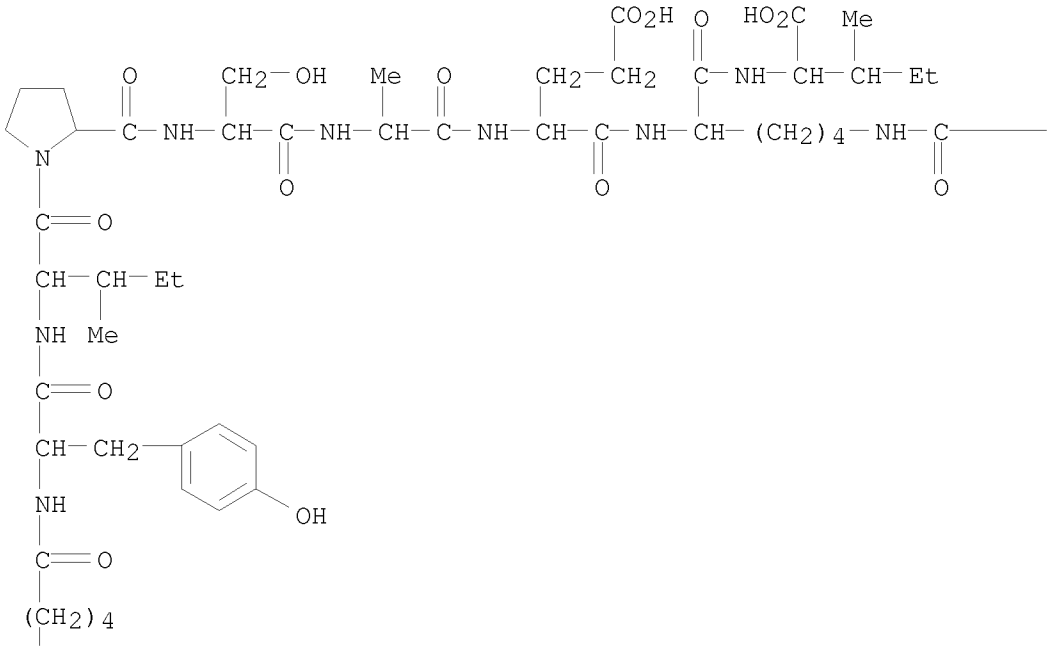


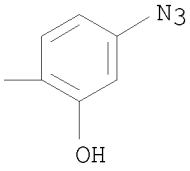
D1— I

RN 147794-88-5 CAPLUS
CN L-Isoleucine, N-[N6-(4-azido-2-hydroxybenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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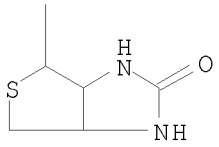

RN 147794-89-6 CAPLUS
CN L-Isoleucine, N-[N6-(4-azidobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

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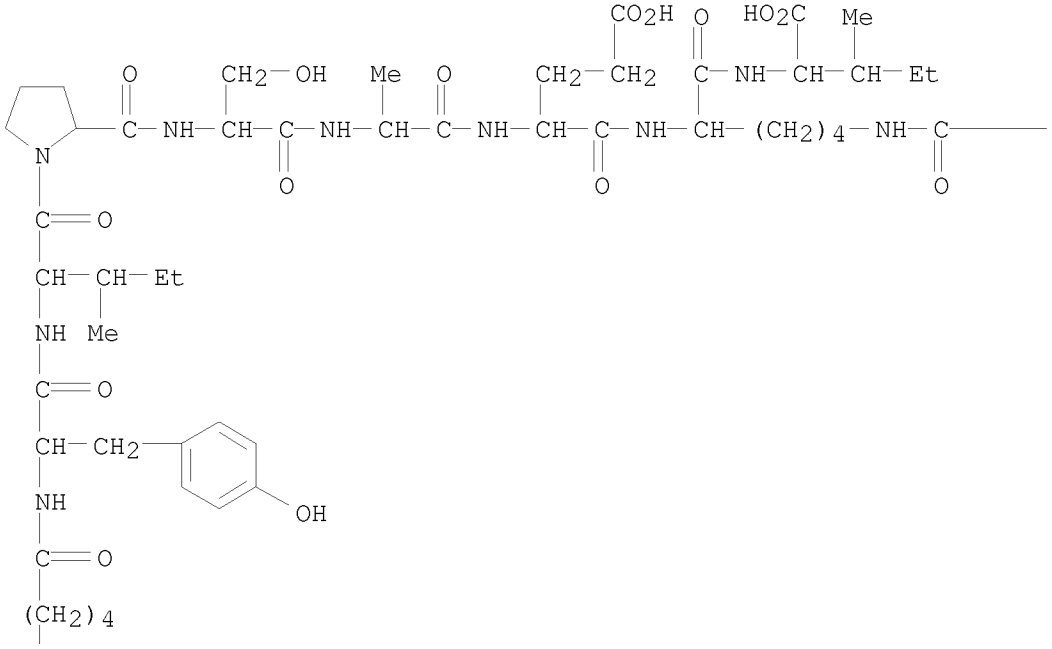
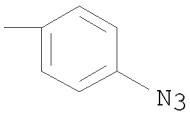


PAGE 1-B



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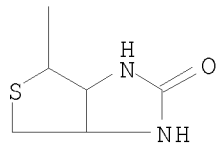

L8 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Design and synthesis of heterofunctional V1a-selective vasopressin receptor ligands with lysine at position 9
IT 147023-69-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with N-terminal lysine-substituted AVP analog)
RN 147023-69-6 CAPLUS
CN L-Lysine, N2-[3-[[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]dithio]-1-oxopropyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

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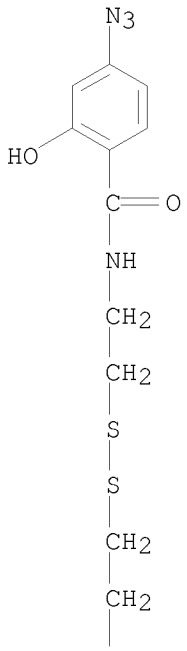

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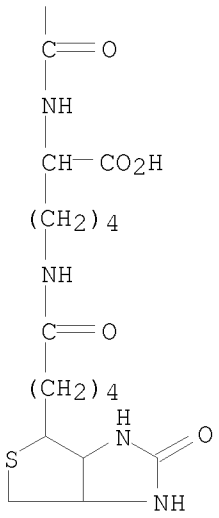

IT 147041-32-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as vasopressinergic V1a receptor ligand)
RN 147041-32-5 CAPLUS
CN L-Lysinamide, N-[(1-mercaptocyclohexyl)acetyl]-O-methyl-L-tyrosyl-L-phenylalanyl-L-glutaminyl-L-asparaginyl-L-cysteinyl-L-prolyl-L-arginyl-N6-[N2-[3-[[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]dithio]-1-oxopropyl]-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl]-, cyclic (1→5)-disulfide (9CI) (CA INDEX NAME)

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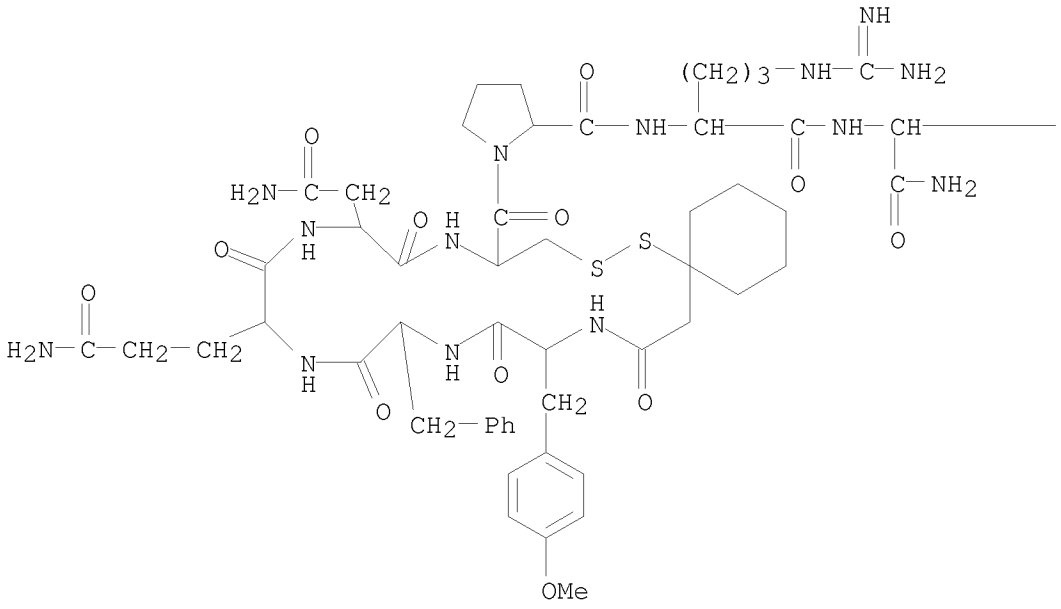

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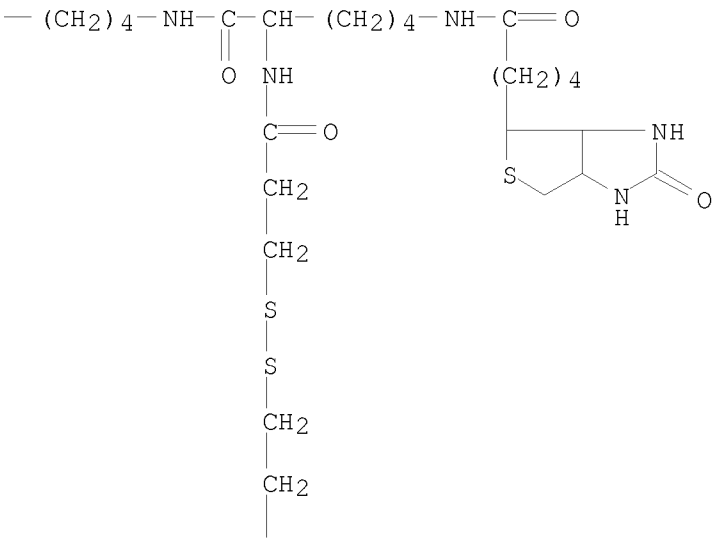

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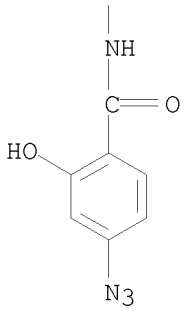

L8 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Attaching analytes in the proximity of the active site of enzymes
IT 146690-72-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and glucose phosphate dehydrogenase photolabeling by)
RN 146690-72-4 CAPLUS
CN Adenosine 5'-(trihydrogen diphosphate),
N-[2-[[6-[[6-[(4-azido-2,3,5,6-tetrafluorobenzoyl)amino]-2-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-1-oxohexyl]amino]hexyl]amino]-2-oxoethyl]-, P'→5'-ester with 3-(aminocarbonyl)-1-β-D-ribofuranosylpyridinium inner salt, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

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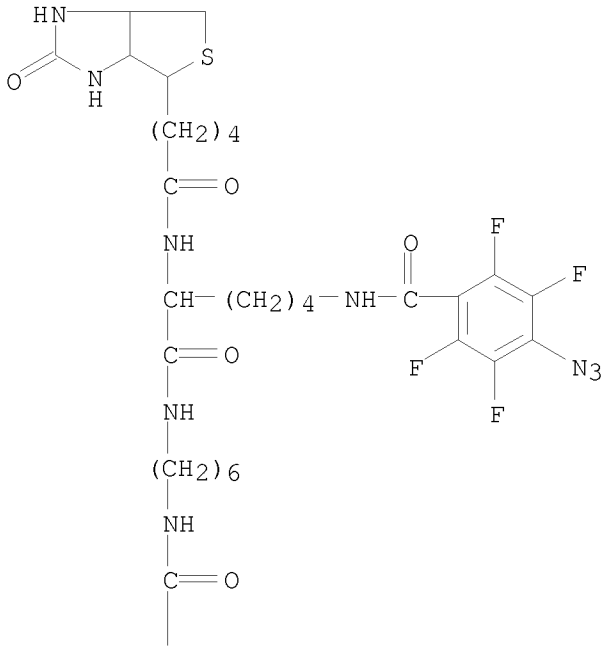

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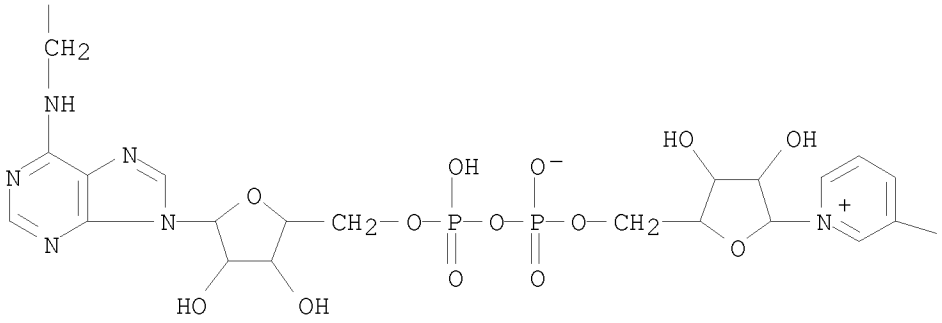

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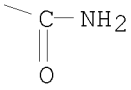


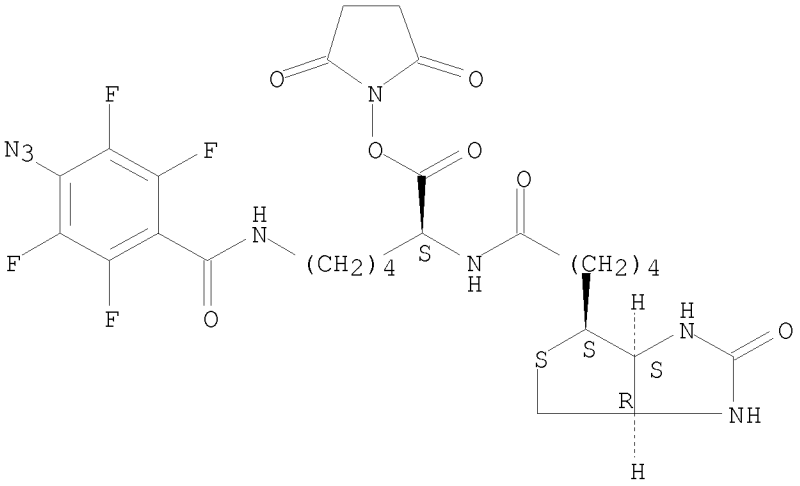
IT 146690-73-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction with NAD derivative)

RN 146690-73-5 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azido-2,3,5,6-tetrafluorobenzoyl)amino]-1-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pentyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



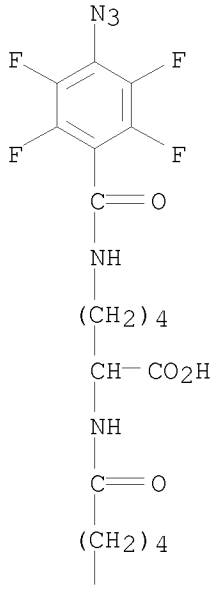
IT 146672-32-4P

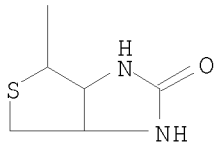
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and succinimidylation of)

RN 146672-32-4 CAPLUS

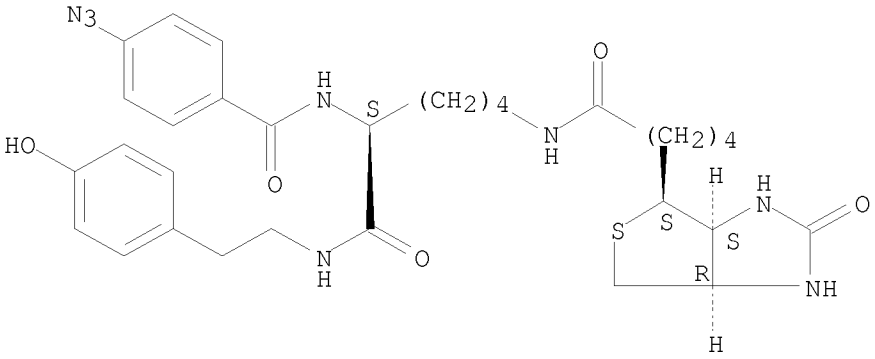
CN L-Lysine, N6-(4-azido-2,3,5,6-tetrafluorobenzoyl)-N2-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)





L8 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis and biological properties of 2-substituted myo-inositol 1,4,5-trisphosphate analogs directed toward affinity chromatography and photoaffinity labeling
IT 135417-95-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with inositol phosphate diazobenzoate)
RN 135417-95-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azidobenzoyl)amino]-6-[[2-(4-hydroxyphenyl)ethyl]amino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 140220-70-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as photoaffinity probe)
RN 140220-70-8 CAPLUS
CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate] 1,4,5-tris(dihydrogen phosphate) (9CI) (CA INDEX NAME)

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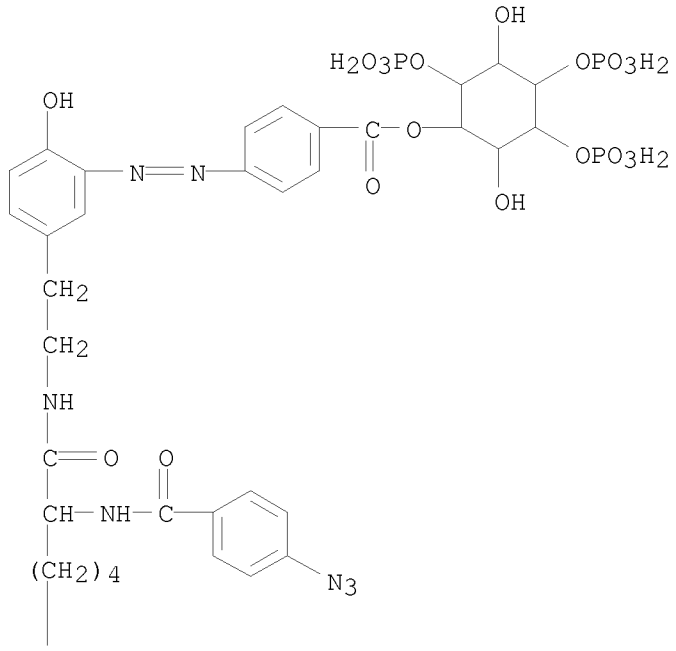

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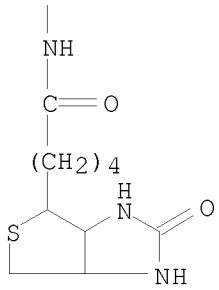
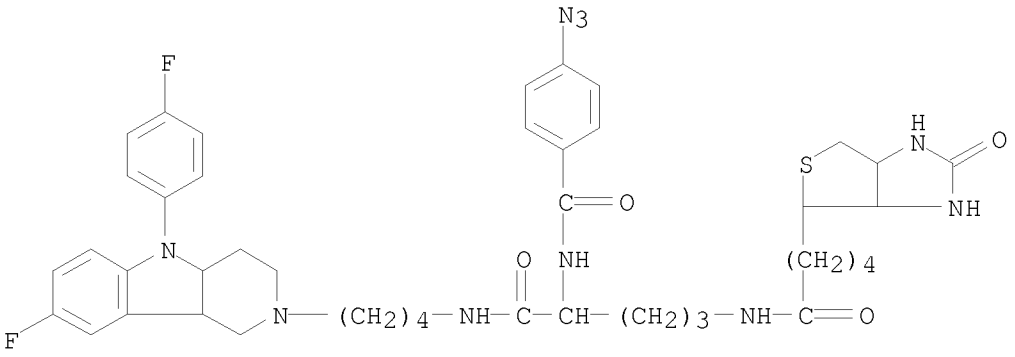


L8 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis and characterization of biotinylated and photoactivatable neuroleptics. Novel bifunctional probes for dopamine receptors
IT 143035-00-1P 143035-04-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and dopamine receptor affinity of, structure in relation to)
RN 143035-00-1 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[4-[(4-azidobenzoyl)amino]-5-[[4-[8-fluoro-5-(4-fluorophenyl)-1,3,4,4a,5,9b-hexahydro-2H-pyrido[4,3-b]indol-2-yl]butyl]amino]-5-oxopentyl]hexahydro-2-oxo- (CA INDEX NAME)



RN 143035-04-5 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[4-[(4-azidobenzoyl)amino]-5-oxo-5-[[2-[4-[3-[2-(trifluoromethyl)-10H-phenothiazin-10-yl]propyl]-1-piperazinyl]ethyl]amino]pentyl]hexahydro-2-oxo- (CA INDEX NAME)

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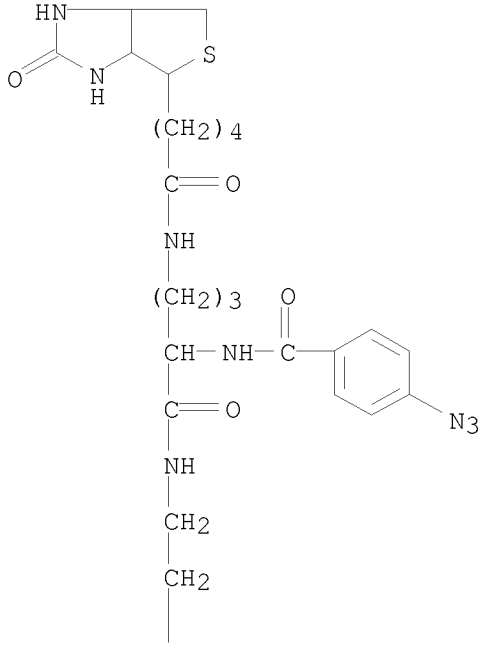
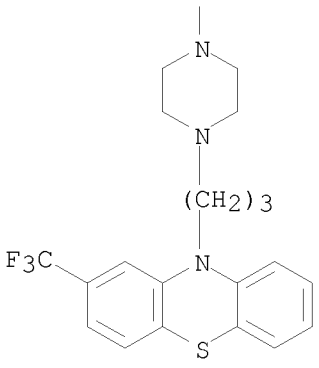
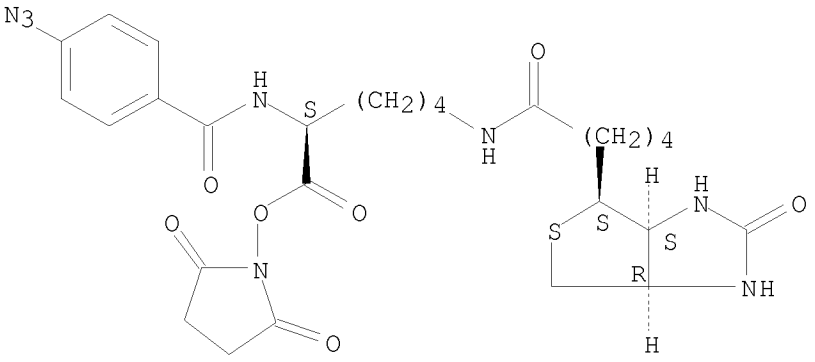




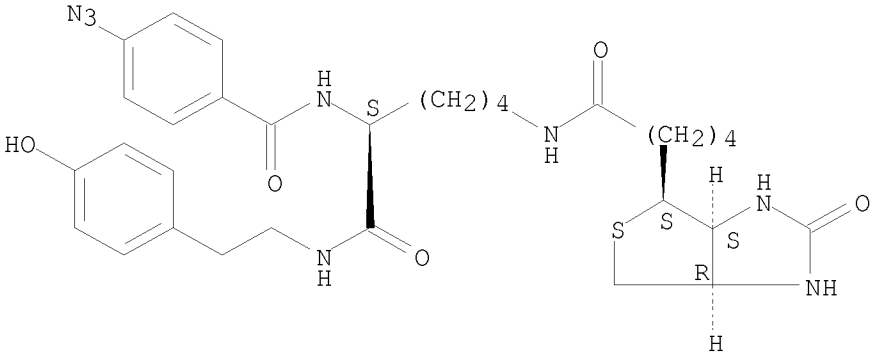
IT 143304-60-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with hexahydrocarboline derivative)
RN 143304-60-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[5-[(4-azidobenzoyl)amino]-6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



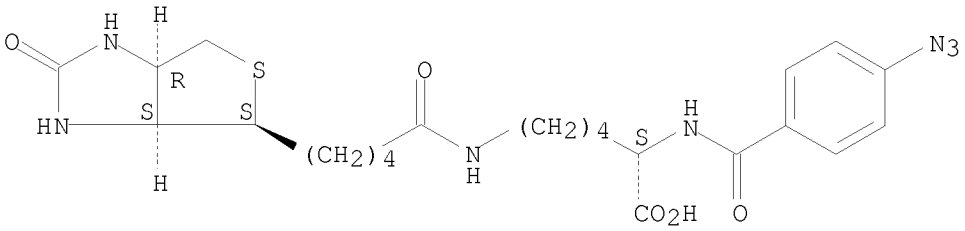
L8 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of inositol polyphosphate derivatives for control of the calcium ion-participating metabolic steps
IT 135417-95-7P 135442-12-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of inositol triphosphate-bound biotin-avidin complex probe)
RN 135417-95-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[5-[(4-azidobenzoyl)amino]-6-[[2-(4-hydroxyphenyl)ethyl]amino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 135442-12-5 CAPLUS
CN L-Lysine, N2-(4-azidobenzoyl)-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]-imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 135442-10-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as biotin-avidin complex probe)
RN 135442-10-3 CAPLUS
CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate] 1,4,5-tris(dihydrogen phosphate), monopotassium salt (9CI) (CA INDEX NAME)

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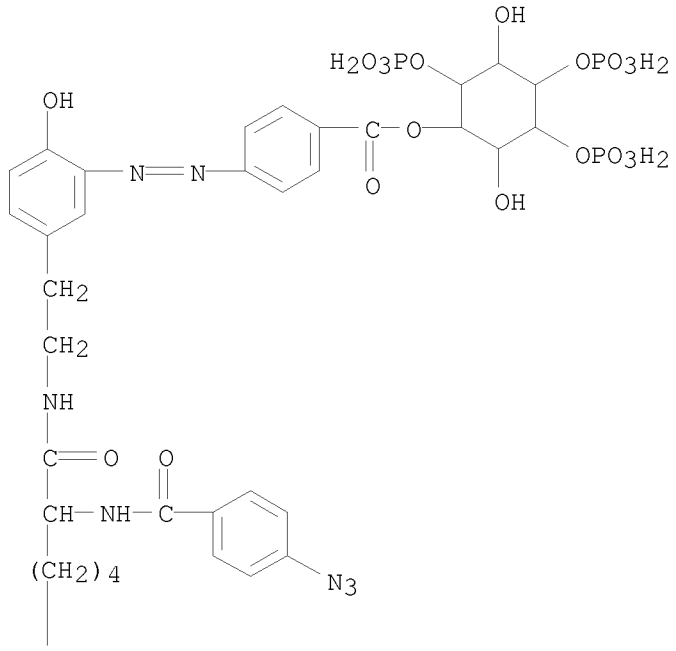

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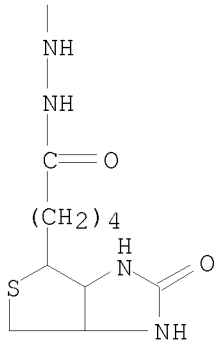

● K

L8 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Interaction of antigenic peptides with MHC class I molecules on living cells studied by photoaffinity labeling
IT 140158-18-5P
RL: PREP (Preparation)
(preparation of, histocompatibility class I antigen binding in relation to)
RN 140158-18-5 CAPLUS
CN L-Isoleucine, N-[N2-[N-[N-[N-[1-[N-[N-(4-azido-2-hydroxy-3-iodobenzoyl)-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

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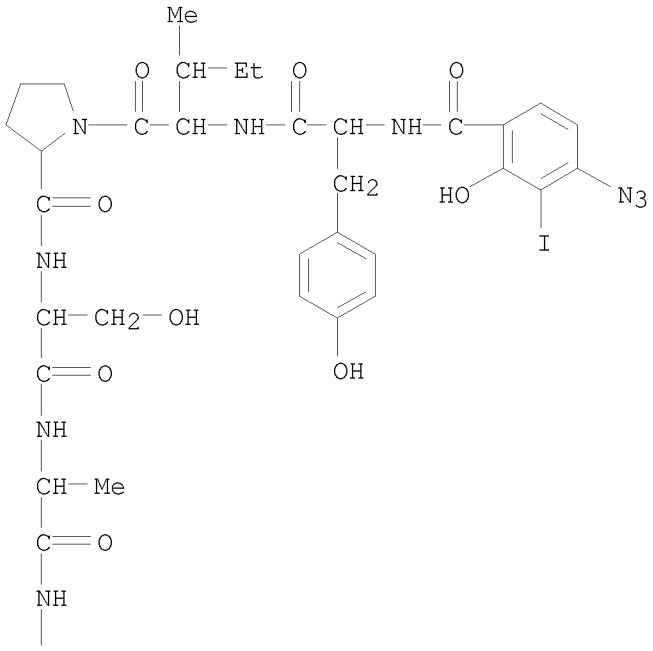

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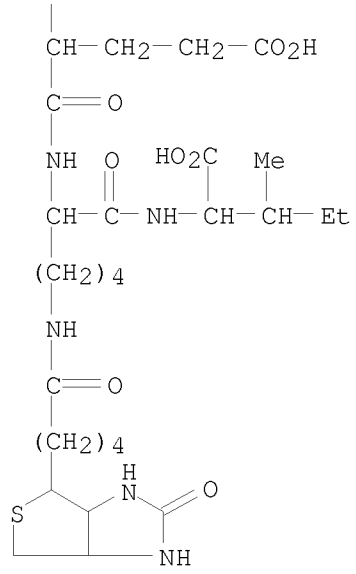
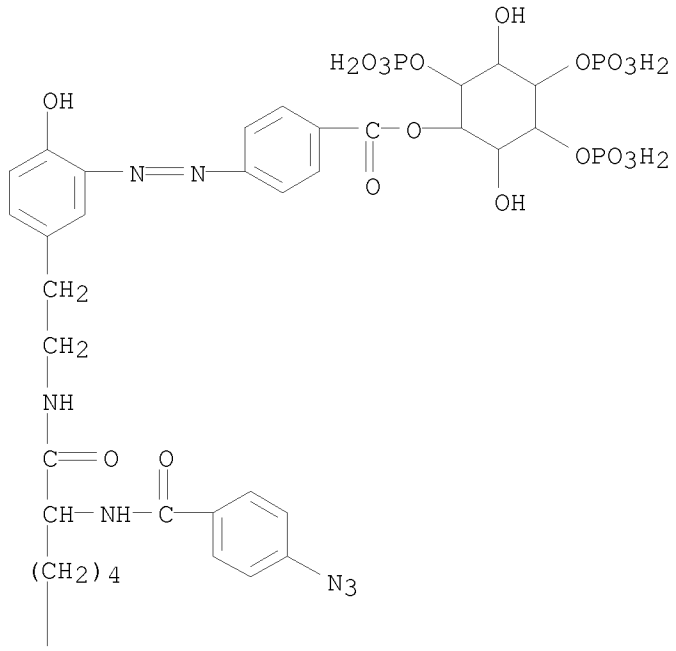


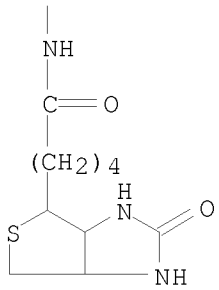
L8 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis and characterization of a photoaffinity probe possessing biotinyl and azidobenzoyl moieties for IP3-affiniated protein
IT 140220-70-8P
RL: PREP (Preparation)
(preparation and characterization of, as photoaffinity probe)
RN 140220-70-8 CAPLUS
CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-

[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-
1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate]
1,4,5-tris(dihydrogen phosphate) (9CI) (CA INDEX NAME)

PAGE 1-A

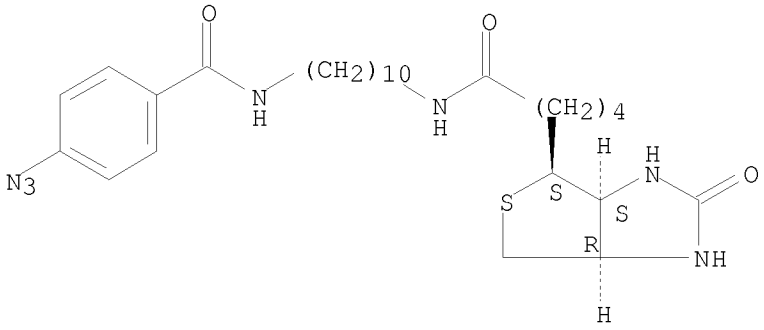


PAGE 2-A



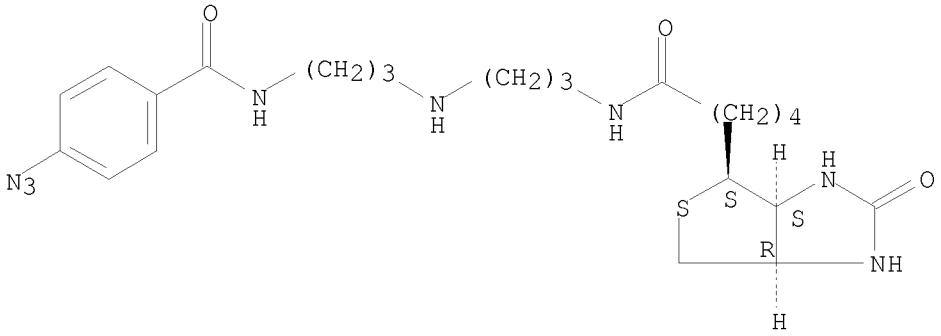
L8 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Azidobenzoyl-, azidoacridinyl-, diazocyclopentadienylcarbonyl- and
    8-propyloxypsoralen photobiotinylation reagents. Syntheses and
    photoreactions with DNA and protein
IT 134857-17-3P 134857-18-4P 134857-20-8P
    134885-33-9P
    RL: PREP (Preparation)
       (preparation of, as photobiotinylation reagent, for DNA and protein)
RN 134857-17-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
    N-[10-[(4-azidobenzoyl)amino]decyl]hexahydro-2-oxo-,
    [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134857-18-4 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-[[3-[(4-azidobenzoyl)amino]propyl]amino]propyl]hexahydro-2-oxo-, monohydrochloride, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

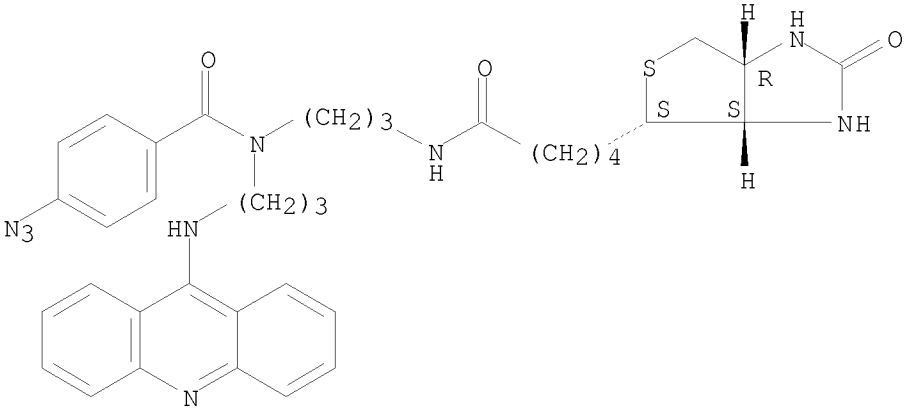
Absolute stereochemistry.



● HCl

RN 134857-20-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-[[3-(9-acridinylamino)propyl](4-azidobenzoyl)amino]propyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

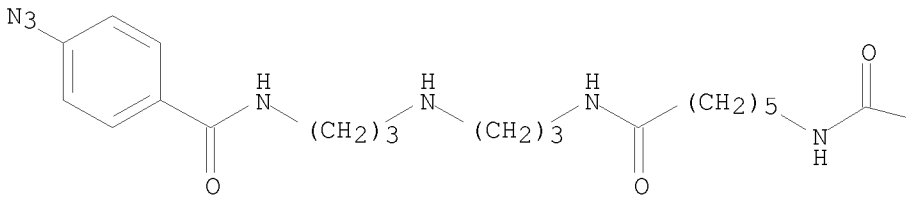
Absolute stereochemistry.



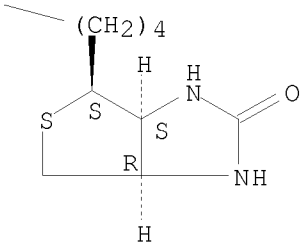
RN 134885-33-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[6-[[3-[[3-[(4-azidobenzoyl)amino]propyl]amino]propyl]amino]-6-oxohexyl]hexahydro-2-oxo-, dihydrochloride,
[3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

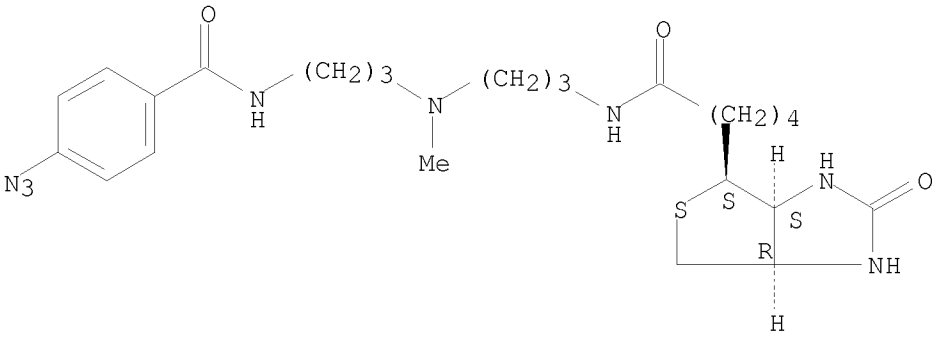


●2 HCl



L8 ANSWER 33 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
TI Non-radioactive biological probes
IT 101637-63-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as nonradioactive biol. probe)
RN 101637-63-2 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-[[3-[(4-azidobenzoyl)amino]propyl]methylamino]propyl]hexahydro-2-oxo-
, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d ibib abs hitstr 23-33

L8 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:512330 CAPLUS
DOCUMENT NUMBER: 119:112330
ORIGINAL REFERENCE NO.: 119:20113a,20116a
TITLE: Photoaffinity labeling of the T cell receptor on living cytotoxic T lymphocytes
AUTHOR(S): Romero, Pedro; Maryanski, Janet L.; Luescher, Immanuel F.
CORPORATE SOURCE: Lausanne Branch, Ludwig Inst. Cancer Res., Epalinges, 1066, Switz.
SOURCE: Journal of Immunology (1993), 150(9), 3825-31
CODEN: JOIMA3; ISSN: 0022-1767
DOCUMENT TYPE: Journal

LANGUAGE: English

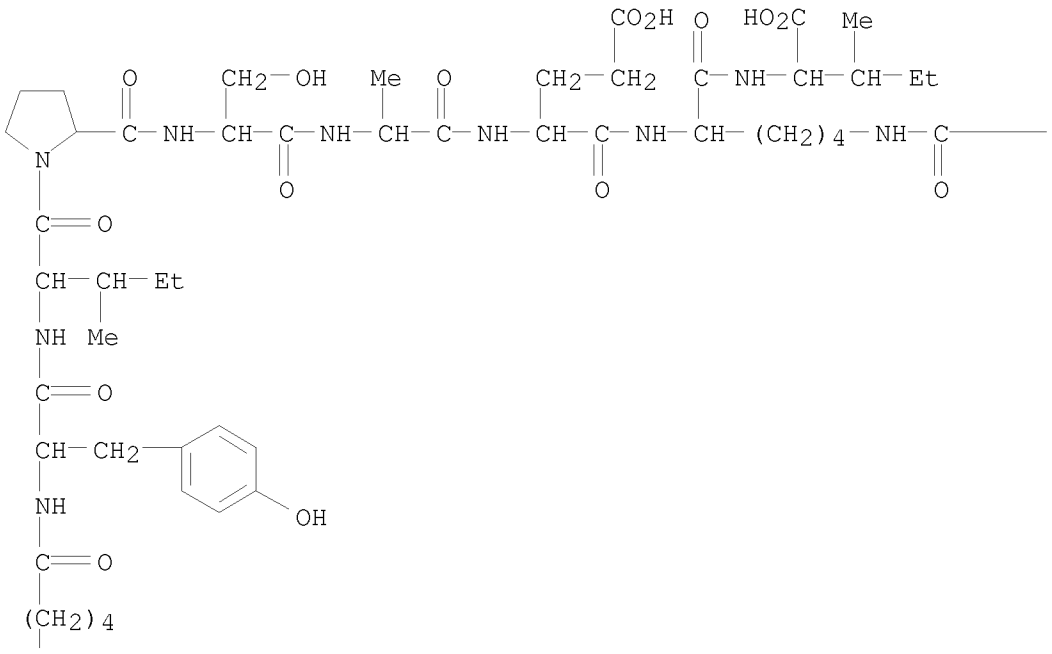
AB Using a direct binding assay based on photoaffinity labeling, the authors studied the interaction of an antigenic peptide with MHC class I mols. and the TCR on living cells. Two photoreactive derivs. of the H-2Kd (Kd)-restricted Plasmodium berghei circumsporozoite (PbCS) peptide 253-260 (YIPSAEKI) were used. The first derivative contained an N-terminal photoreactive iodo, 4-azido salicyloyl (IASA) group and biotin on the TCR contact residue Lys259 [IASA-YIPSAEK(biotin)I]. As previously described, this derivative selectively bound to and labeled the Kd mol. The second photoreactive compound, the isomeric biotin-YIPSAEK(IASA)I, also efficiently bound to the Kd mol., but failed to label this protein. A CTL clone derived from a mouse immunized with this derivative recognize this conjugate but not the parental P. berghei circumsporozoite peptide or the [IASA-YIPSAEK-(biotin)I] derivative in an Kd-restricted manner. Incubation of the cloned CTL cells with biotin-YIPSAEK(IASA)I, but not its isomer, followed by UV irradiation resulted in photoaffinity labeling of the TCR-α chain that was dependent on the conjugate binding to the Kd mol. The TCR labeling was partially inhibited by anti-LFA 1 and anti-ICAM1 monoclonal antibodies, but was increased by addition of β2m or soluble KdQ10. The exquisite labeling selectivity of the two photoprobes opens a new, direct approach to the mol. anal. of antigen presentation and recognition by living CTL.

IT 147557-16-2 149235-89-2
RL: BIOL (Biological study)
(in photoaffinity labeling of T-cell receptor on cytotoxic T-lymphocytes)

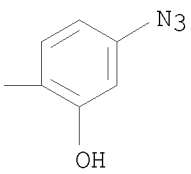
RN 147557-16-2 CAPLUS

CN L-Isoleucine, N-[N6-(4-azido-2-hydroxyiodobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

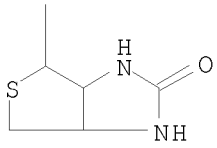
PAGE 1-A



PAGE 1-B



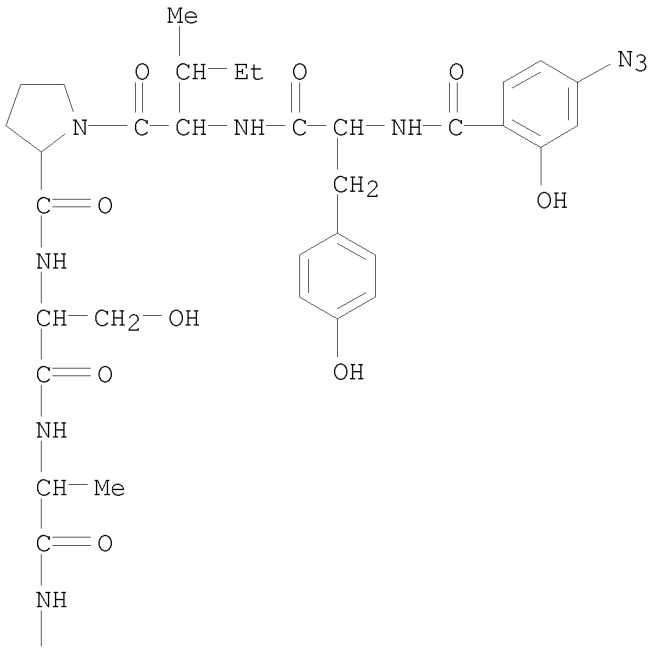
PAGE 2-A



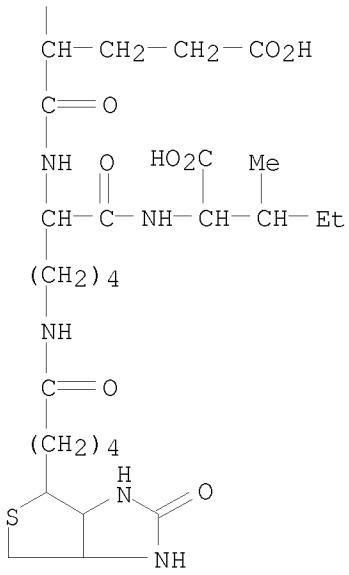
D1— I

RN 149235-89-2 CAPLUS
CN L-Isoleucine, N-[N2-[N-[N-[N-[1-[N-[N-(4-azido-2-hydroxyiodobenzoyl)-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



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D1— I

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L8 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:252873 CAPLUS
DOCUMENT NUMBER: 118:252873
ORIGINAL REFERENCE NO.: 118:43891a,43894a
TITLE: Differential T cell receptor photoaffinity labeling among H-2Kd restricted cytotoxic T lymphocyte clones specific for a photoreactive peptide derivative. Labeling of the α-chain correlates with Jα segment usage
AUTHOR(S): Romero, Pedro; Casanova, Jean Laurent; Cerottini, Jean Charles; Maryanski, Janet L.; Luescher, Immanuel F.
CORPORATE SOURCE: Lausanne Branch, Ludwig Inst. Cancer Res., Epalinges, 1066, Switz.
SOURCE: Journal of Experimental Medicine (1993), 177(5), 1247-56
CODEN: JEMEAV; ISSN: 0022-1007
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Using a direct binding assay based on photoaffinity labeling, the authors studied the interaction of T cell receptor (TCR) with a Kd-bound photoreactive peptide derivative on living cells. The Kd-restricted Plasmodium berghei circumsporozoite (PbCS) peptide 253-260 (YIPSAEKI) was reacted N-terminally with biotin and at the TCR contact residue Lys259 with photoreactive iodo,4-azido salicylic acid (IASA) to make biotin-YIPSAEK(IASA)I. Cytotoxic T lymphocyte (CTL) clones derived from mice immunized with this derivative recognized this conjugate, but not a related one lacking the IASA group nor the parental PbCS peptide. The clones were Kd-restricted. Recognition expts. with variant conjugates, lacking substituents from IASA, revealed a diverse fine specificity pattern and indicated that this group interacted directly with the TCR.

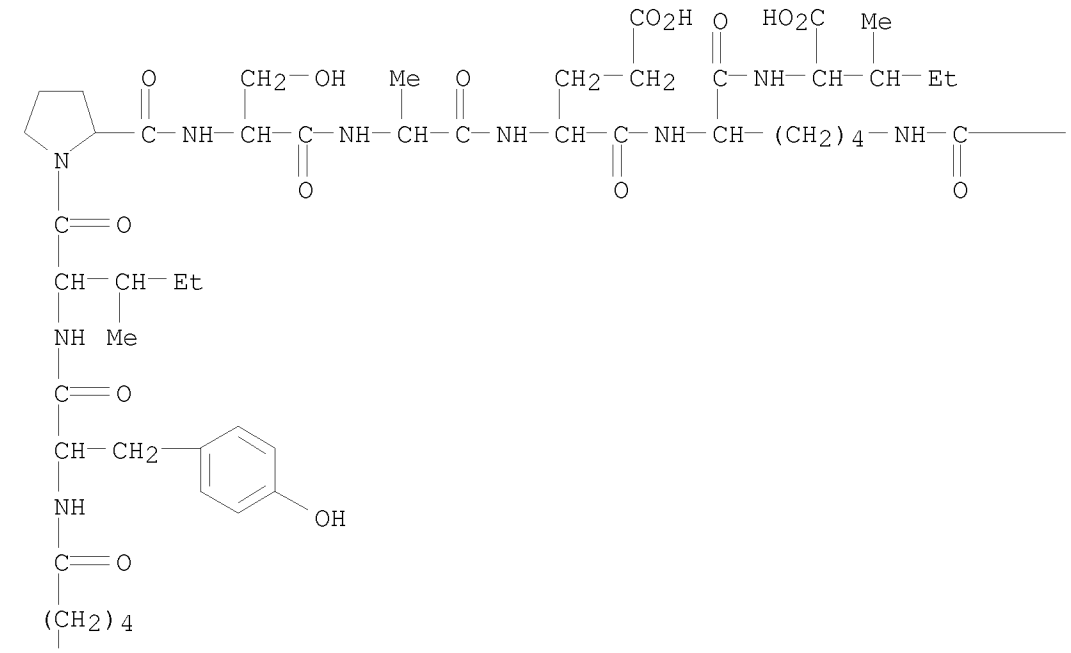
The TCR of four clones could be photoaffinity labeled by biotin-YIPSAEK(125IASA)I. This labeling was dependent on the conjugates binding to the Kd mol. and was selective for the TCR α (2 clones) or β chain (1 clone), or was common for both chains (1 clone). TCR sequence anal. showed a preferential usage of JαTA28 containing α chains that were paired with Vβ1 expressing β chains. The TCR that were photoaffinity labeled at the α chain expressed these Jα and Vβ segments. The tryptophan encoded by the JαTA28 segment is rarely found in other Jα segments. Moreover, the IASA group interacted preferentially with tryptophan in aqueous solution Thus, for these CTL clones, labeling of the α chain occurred via the Jα-encoded tryptophan residue.

IT 147557-16-2 147794-88-5 147794-89-6
RL: BIOL (Biological study)
(cytotoxic T-lymphocyte to, TCR receptor α-chain J segment usage by)

RN 147557-16-2 CAPLUS

CN L-Isoleucine, N-[N6-(4-azido-2-hydroxyiodobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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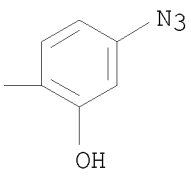
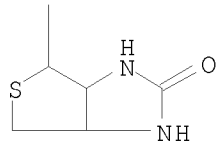


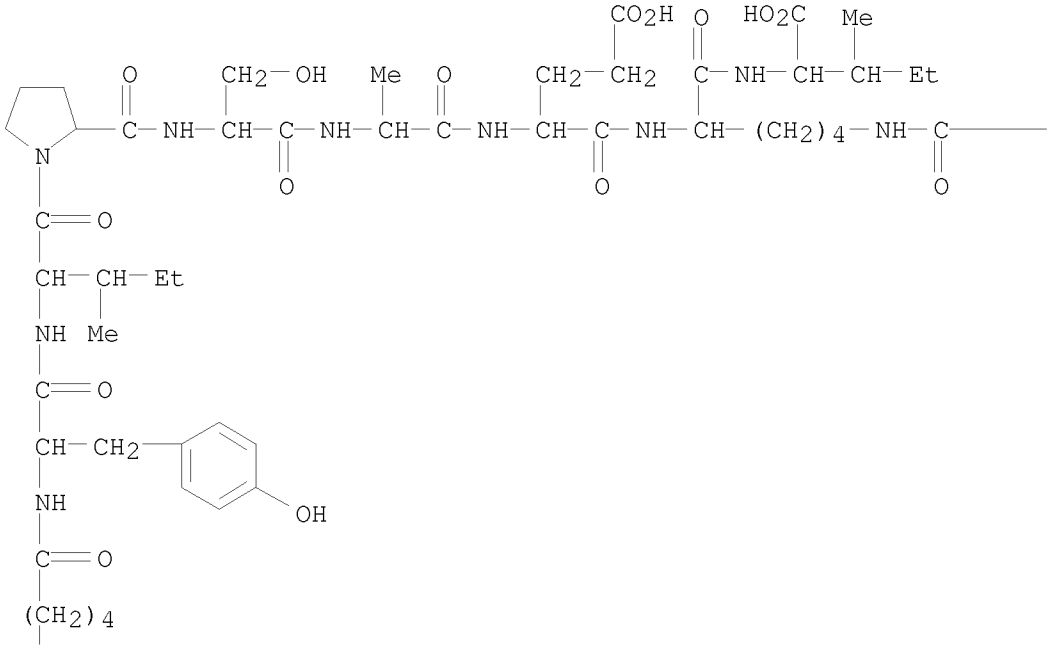
PAGE 2-A



D1— I

RN 147794-88-5 CAPLUS
CN L-Isoleucine, N-[N6-(4-azido-2-hydroxybenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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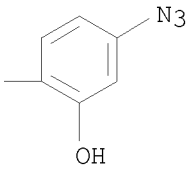

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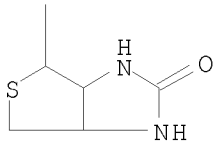

RN 147794-89-6 CAPLUS
CN L-Isoleucine, N-[N6-(4-azidobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

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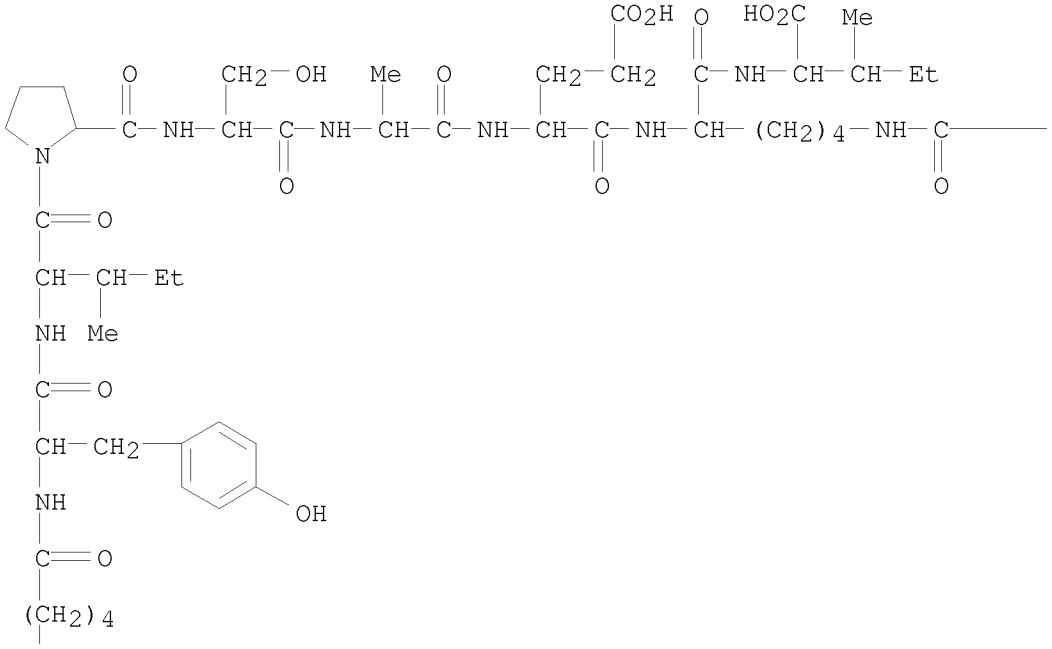

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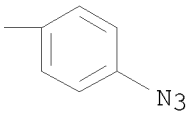
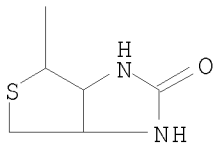
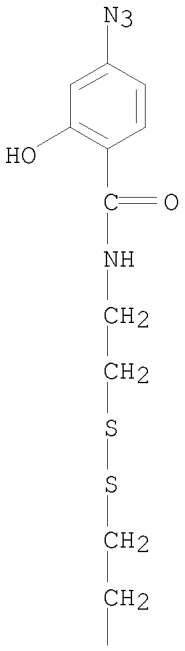




OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L8 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:183656 CAPLUS
DOCUMENT NUMBER: 118:183656
ORIGINAL REFERENCE NO.: 118:31259a,31262a
TITLE: Design and synthesis of heterofunctional V1a-selective vasopressin receptor ligands with lysine at position 9
AUTHOR(S): Howl, J.; New, D. C.; Wheatley, M.
CORPORATE SOURCE: Sch. Biochem., Univ. Birmingham, Edgbaston/Birmingham, B15 2TT, UK
SOURCE: Journal of Molecular Endocrinology (1992), 9(2), 123-9
CODEN: JMLEEI; ISSN: 0952-5041
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A peptide analog of AVP with Lys substituted for Gly at position 9 ([d(CH2)5Tyr(Me)2LysNH29]AVP; ALVP) has been synthesized as a precursor for the production of heterofunctional vasopressin receptor ligands. Three heterofunctional ligands have been prepared by attaching biotin and a photoreactive cross-linker capable of iodination (azidosalicylate), either alone or in combination, to the ε-amino group of Lys at position 9 in ALVP. The binding characteristics of these novel ligands have been determined at the V1a and V2 vasopressin receptors by employing membrane prepns. of rat liver and kidney, resp. All of the analogs synthesized during the course of this study bound selectively, and with high affinity, to the V1a vasopressin receptor subtype. The results demonstrate that the strategies described in this paper provide a convenient means of synthesizing heterofunctional vasopressin receptor ligands with preservation of subtype-specific, high-affinity binding characteristics. These parameters establish the potential value of the analogs as probes for investigating V1a receptor structure and function.
IT 147023-69-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with N-terminal lysine-substituted AVP analog)
RN 147023-69-6 CAPLUS
CN L-Lysine, N2-[3-[[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]dithio]-1-oxopropyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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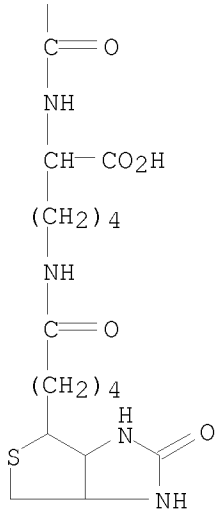

IT 147041-32-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as vasopressinergic V1a receptor ligand)
RN 147041-32-5 CAPLUS
CN L-Lysinamide, N-[(1-mercaptocyclohexyl)acetyl]-O-methyl-L-tyrosyl-L-phenylalanyl-L-glutaminyl-L-asparaginyl-L-cysteinyl-L-prolyl-L-arginyl-N6-[N2-[3-[[2-[(4-azido-2-hydroxybenzoyl)amino]ethyl]dithio]-1-oxopropyl]-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl]-, cyclic (1→5)-disulfide (9CI) (CA INDEX NAME)

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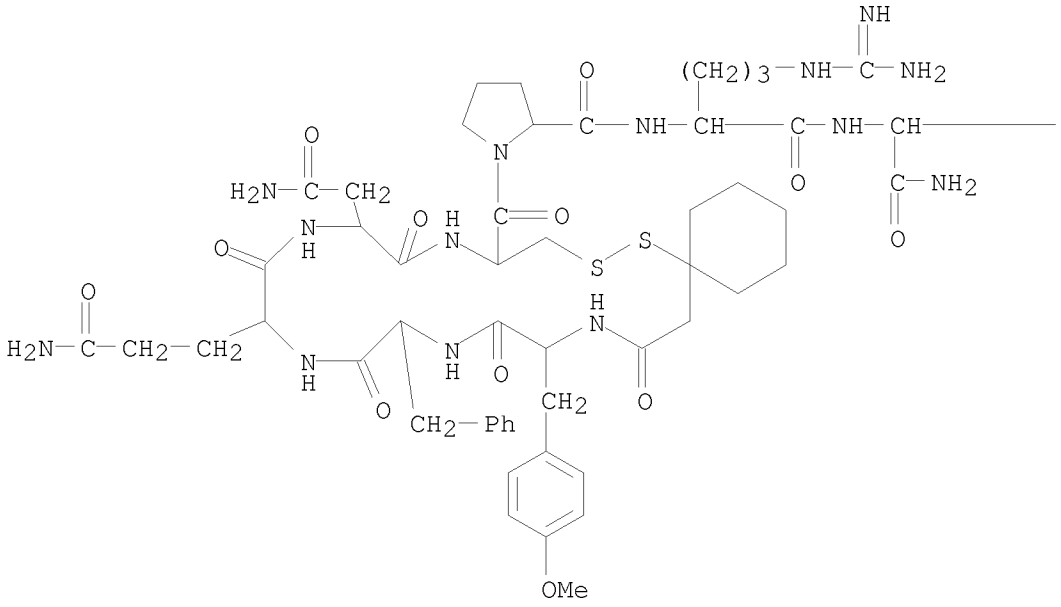
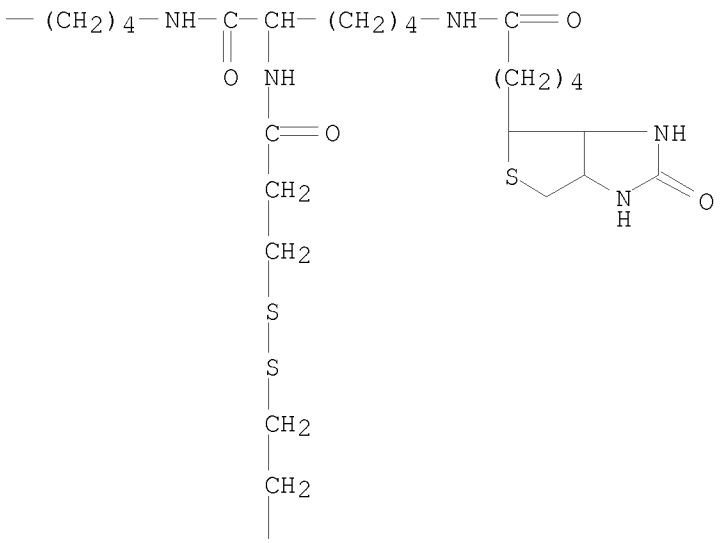
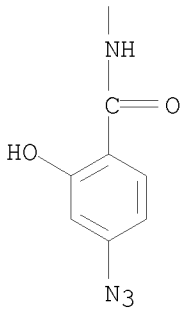


PAGE 1-B





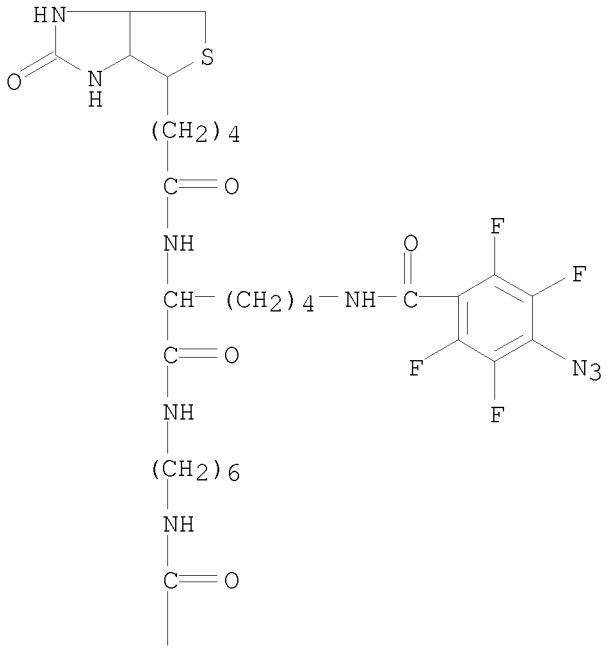
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L8 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:164106 CAPLUS
DOCUMENT NUMBER: 118:164106
ORIGINAL REFERENCE NO.: 118:28021a,28024a
TITLE: Attaching analytes in the proximity of the active site of enzymes
AUTHOR(S): MacLean, Alynne I.; Cynkowskl, Tadeusz; Bachas, Leonidas G.
CORPORATE SOURCE: Dep. Chem., Univ. Kentucky, Lexington, KY, 40506, USA
SOURCE: Journal of the Chemical Society, Chemical Communications (1992), (18), 1283-5
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English

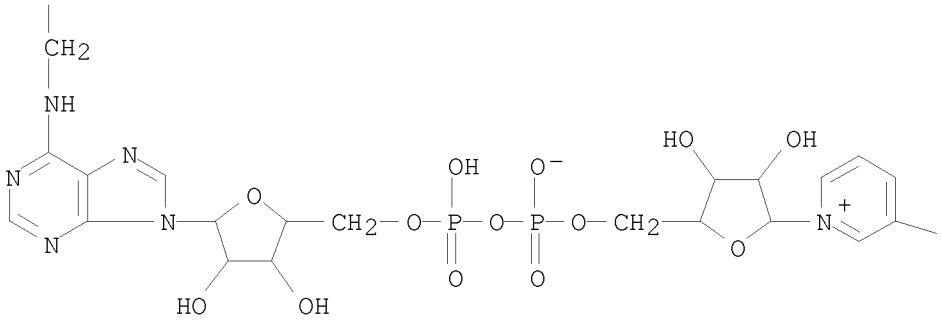
AB A trifunctional compound, incorporating a photolabel, a coenzyme, and an analyte of interest, is synthesized and used to prepare an enzyme reagent that had been modified near its active site. Glucose-6-phosphate dehydrogenase was chemical modified with the reagent.

IT 146690-72-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and glucose phosphate dehydrogenase photolabeling by)
RN 146690-72-4 CAPLUS
CN Adenosine 5'-(trihydrogen diphosphate), N-[2-[[6-[[6-[(4-azido-2,3,5,6-tetrafluorobenzoyl)amino]-2-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-1-oxohexyl]amino]hexyl]amino]-2-oxoethyl]-, P'→5'-ester with 3-(aminocarbonyl)-1-β-D-ribofuranosylpyridinium inner salt, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

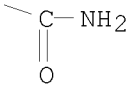
PAGE 1-A



PAGE 2-A



PAGE 2-B



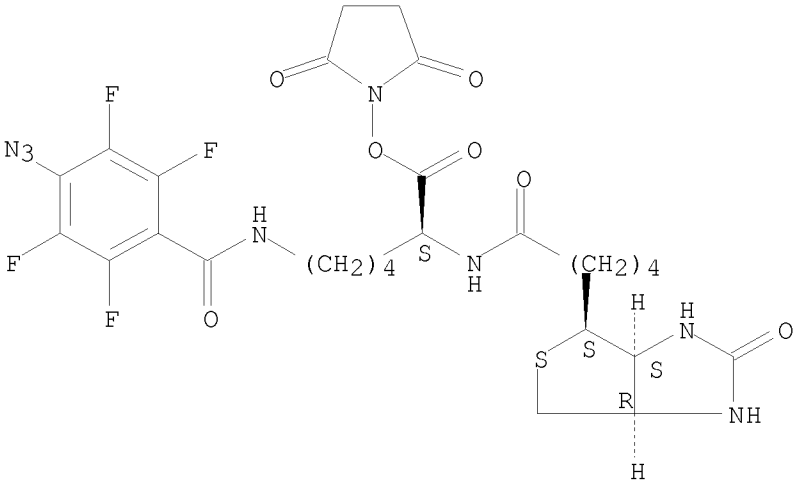
IT 146690-73-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction with NAD derivative)

RN 146690-73-5 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azido-2,3,5,6-tetrafluorobenzoyl)amino]-1-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pentyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



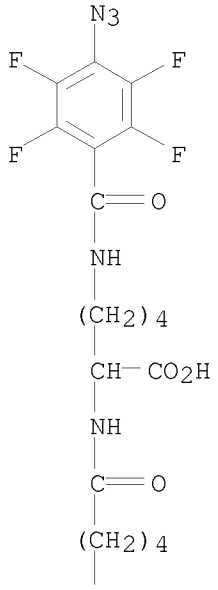
IT 146672-32-4P

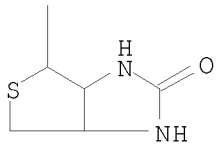
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and succinimidylation of)

RN 146672-32-4 CAPLUS

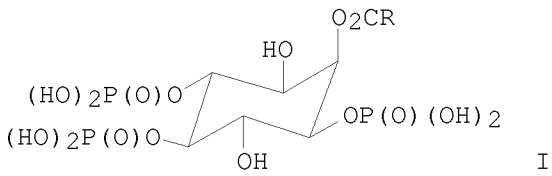
CN L-Lysine, N6-(4-azido-2,3,5,6-tetrafluorobenzoyl)-N2-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)





OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:102348 CAPLUS
DOCUMENT NUMBER: 118:102348
ORIGINAL REFERENCE NO.: 118:17949a,17952a
TITLE: Synthesis and biological properties of 2-substituted myo-inositol 1,4,5-trisphosphate analogs directed toward affinity chromatography and photoaffinity labeling
AUTHOR(S): Ozaki, Shoichiro; Watanabe, Yutaka; Ogasawara, Tomio; Hirata, Masato; Kanematsu, Takashi
CORPORATE SOURCE: Fac. Eng., Ehime Univ., Matsuyama, 790, Japan
SOURCE: Carbohydrate Research (1992), 234, 189-206
CODEN: CRBRAT; ISSN: 0008-6215
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



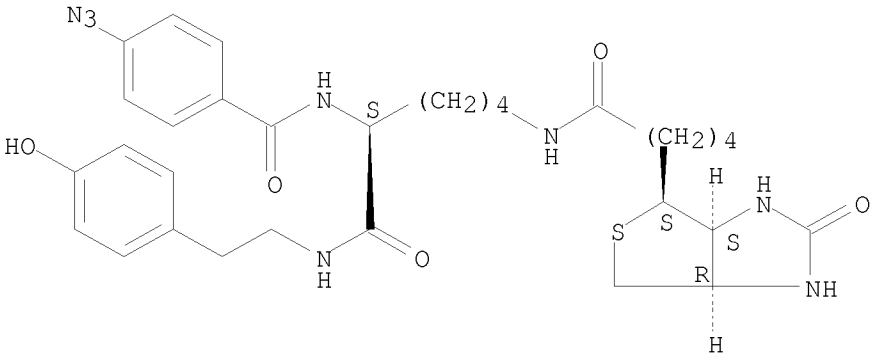
I

AB myo-Inositol 1,4,5-trisphosphate analogs I (R = 4-H2NC6H4, 4-N3C6H4, 4-[2,5-HO(BzNHCH2CH2)C6H3N:N]C6H4, cis- and trans-4-aminocyclohexyl) were synthesized and examined for their effects on the 5-phosphatase-, the 3-kinase-, the tritiated trisphosphate-binding activity, and the Ca2+-releasing activity. Each I inhibited the hydrolysis and the phosphorylation of D-inositol-1,4,5-triphosphate (II), catalyzed by erythrocyte ghosts and brain cytosol, resp. I acted as full agonists in releasing Ca2+ from permeabilized cells and also inhibited the binding of II to cerebellum microsomes. I (R = 4-H2NC6H4, cis- and trans-4-aminocyclohexyl) were utilized for immobilization of the trisphosphate on Sepharose and the subsequent affinity chromatog. effected purification of the above proteins. A photoaffinity probe, the appendage of which acted as the photoaffinity probe as well as a nonradioactive mol. marker, was also derived from I (R = 4-H2NC6H4).

IT 135417-95-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with inositol phosphate diazobenzoate)

RN 135417-95-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[5-[(4-azidobenzoyl)amino]-6-[[2-(4-hydroxyphenyl)ethyl]amino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



IT 140220-70-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as photoaffinity probe)
RN 140220-70-8 CAPLUS
CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate]
1,4,5-tris(dihydrogen phosphate) (9CI) (CA INDEX NAME)

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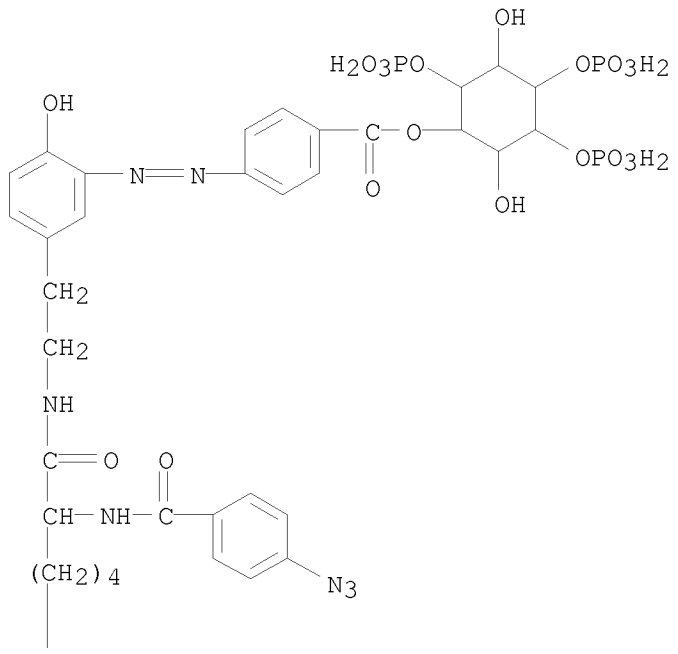
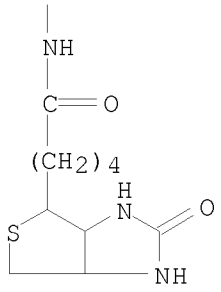




OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:524706 CAPLUS
DOCUMENT NUMBER: 117:124706
ORIGINAL REFERENCE NO.: 117:21461a,21464a
TITLE: Synthesis and characterization of biotinylated and photoactivatable neuroleptics. Novel bifunctional probes for dopamine receptors
AUTHOR(S): Soskic, Vukic; Maelicke, Alfred
CORPORATE SOURCE: Fac. Sci., Univ. Belgrade, Belgrade, 11000, Yugoslavia
SOURCE: European Journal of Pharmacology, Molecular Pharmacology Section (1992), 226(2), 109-20
CODEN: EJPPET; ISSN: 0922-4106
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

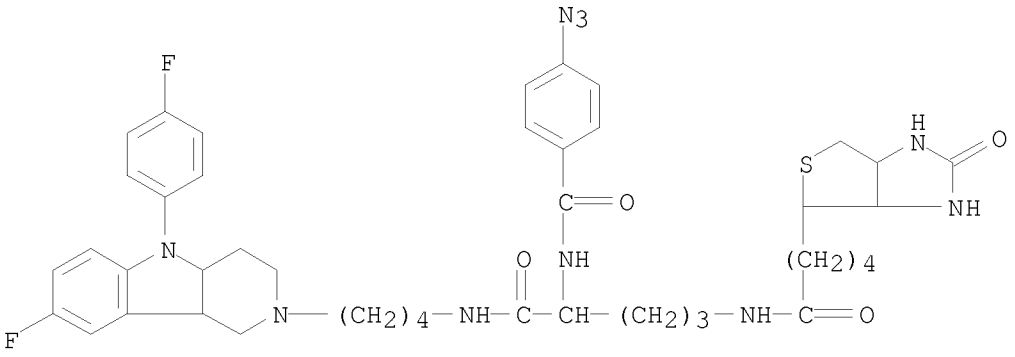
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The authors synthesized and characterized a series of novel derivs. of established antagonists of the neurotransmitter dopamine, i.e. butyrophenones [I and II, X = O, NOCH2CONHMe, etc.; R = H, (CH2)2C6H4N3-4], hexahydrocarbolines [III, R = H, CO(CH2)5NH-Bi; Bi = biotinyl] and phenothiazines (IV, RR1 = H2, COC6H4CO-4, etc.). All derivs. were biotinylated, some of them carried an addnl. (photoactivatable) azido group. In the case of butyrophenones, the structural modifications were introduced at the aliphatic keto group and/or the heterocyclic ring system, both modifications resulting in decreases in binding affinity to dopamine D2 and dopamine D1 receptor subtypes. Biotinylation of hexahydrocarbolines increased their binding affinity to D1 receptors, with the affinity for D2 receptors increasing only slightly, or remaining approx. the same, as compared to the parent compound As a consequence, the derivatized hexahydrocarbolines behaved as nonselective antagonists of dopamine. Biotinylation of phenothiazines increased their binding affinity to both main subtypes of dopamine receptors by at least 1 order of magnitude, resulting in binding affinities in the nM range. These derivs. bound to both D1 and D2 receptor subtypes. In 3 of the biotinylated derivs. the photoactivatable azido group was introduced. These compds. bound to synaptosomal membranes from bovine caudate nuclei with similar affinity and subtype specificity as the biotinylated derivs., and photoaffinity labeling was shown to proceed under mild conditions and selectively. These novel bifunctional ligands may become useful tools in the purification and characterization of dopamine receptors including their visualization and localization in the central nervous system and in tissue

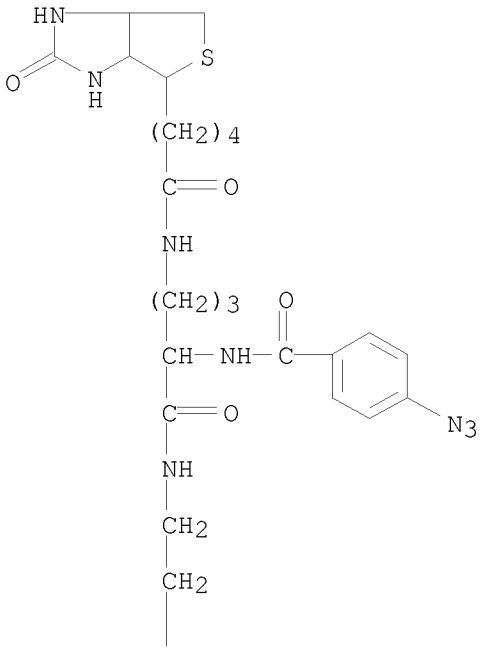
culture.

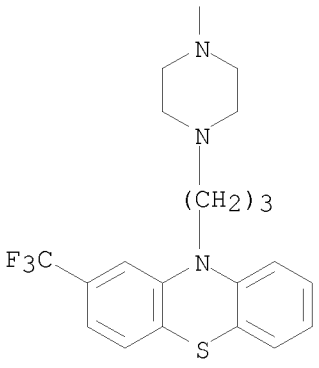
IT 143035-00-1P 143035-04-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and dopamine receptor affinity of, structure in relation to)

RN 143035-00-1 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-[(4-azidobenzoyl)amino]-5-[[4-[8-fluoro-5-(4-fluorophenyl)-
1,3,4,4a,5,9b-hexahydro-2H-pyrido[4,3-b]indol-2-yl]butyl]amino]-5-
oxopentyl]hexahydro-2-oxo- (CA INDEX NAME)



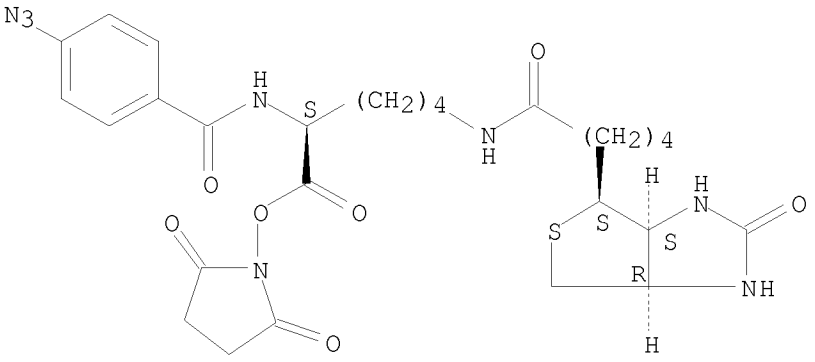
RN 143035-04-5 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-[(4-azidobenzoyl)amino]-5-oxo-5-[[2-[4-[3-[2-(trifluoromethyl)-10H-
phenothiazin-10-yl]propyl]-1-piperazinyl]ethyl]amino]pentyl]hexahydro-2-
oxo- (CA INDEX NAME)





IT 143304-60-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with hexahydrocarboline derivative)
RN 143304-60-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[5-[(4-azidobenzoyl)amino]-6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:490704 CAPLUS
DOCUMENT NUMBER: 117:90704
ORIGINAL REFERENCE NO.: 117:15853a,15856a
TITLE: Preparation of inositol polyphosphate derivatives for control of the calcium ion-participating metabolic steps
INVENTOR(S): Ozaki, Shoichiro; Watanabe, Yutaka; Hirata, Masato; Awaya, Akira
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

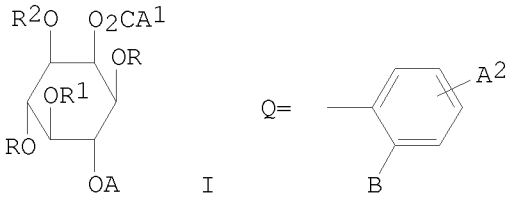
WO 9104258	A1	19910404	WO 1990-JP1228	19900925 <--
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
EP 445299	A1	19910911	EP 1990-913864	19900925 <--
R: CH, DE, FR, GB, IT, LI				
JP 04178394	A	19920625	JP 1990-251804	19900925 <--
US 5252707	A	19931012	US 1991-700152	19910515 <--

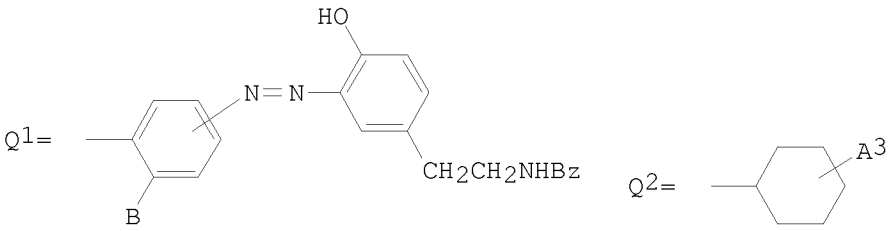
PRIORITY APPLN. INFO.: JP 1989-245161 A 19890922
JP 1990-210263 A 19900810
WO 1990-JP1228 W 19900925

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 117:90704

GI





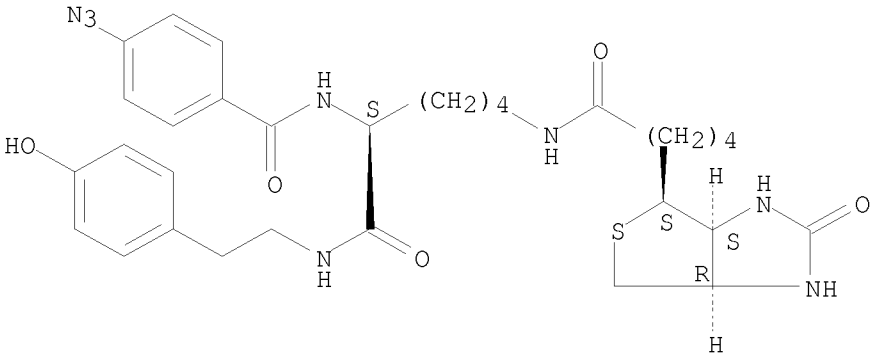
AB The title compds. [I; A = H; R,R1 = (un)protected P(O)(OH)2 and R2 = H; R,R2 = (un)protected P(O)(OH)2, R1 = H; or R,R1,R2 = (un)protected P(O)(OH)2; A1 = (CH2)nCHR3NH2, Q, Q1, Q2, (CH2)nCHR3N:CR4N5, (CH2)nCHR3NHCO2R6, etc.; n = 0-5; R3 = H, (hydroxy)alkyl; (p-hydroxy)phenyl, (p-hydroxy)benzyl, 3-methylindolyl, 5-methylimidazolyl, etc.; R4, R5, R6 = H, alkyl, alkenyl, alkynyl, (un)substituted Ph or cyclohexyl; A2, A3 = N3, NH2, N:CR4R5, NHCHR4R5, etc.; B = H, NH2, NHCOCF3] which are used as drugs having 1,3,4-IP3-, IP3-, or IP4- (IP3, IP4 = inositol tri-orthotetraphosphate, resp.) like activities or antagonizing the activities of 1,3,4-IP3, IP3, or IP4 formed in vivo, and conjugates of I with polypeptides or proteins which are used as diagnostic agents and health foods, are prepared I immobilized on a solid support are also prepared and can be used for separation and purification of IP3 phosphatase, IP4 phosphatase, IP3 kinase, IP4 kinase, IP3 receptor and IP4 receptor. Addnl. prepared are I linked to biotin or a fluorescent substance useful as biotin-avidin complex probes of fluorescent probes for studying the structure-activity relationship, the mechanism of action, or the search of the active site of proteins having affinity towards inositol phosphate-related phosphatase, kinase, and receptors. Thus, hydrogenation of I [A = R2 = CH2Ph, R = R1 = P(O)(OCH2Ph)2, A1 = p-(O2N)C6H4CO] over 5% Pd/C in aqueous MeOH containing AcONH4 gave 100% I [A = R2 = H, R = R1 = P(O)(OH)2, A1 = p-(H2N)C6H4CO] as the NH3 salt (II) which was hydrogenated over RuO2 in H2O at 80 atm H and 60° to give I [A = R2 = H, R = R1 = P(O)(OH)2, A1 = 4-aminocyclohexanecarbonyl] as the NH3 salt (III). II

and III in vitro showed IC50 of 3 and 4.2 nM for inhibiting the binding of [3H]IP3 to the microsome of bovine adrenal cortex, resp. vs. 1.4 nM for IP3 and EC50 of 1.6 and 1.2 μM, resp. for releasing Ca2+ from microphages of guinea pigs abdominal cavity vs. 0.2 μM for IP3.

IT 135417-95-7P 135442-12-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of inositol triphosphate-bound biotin-avidin complex probe)

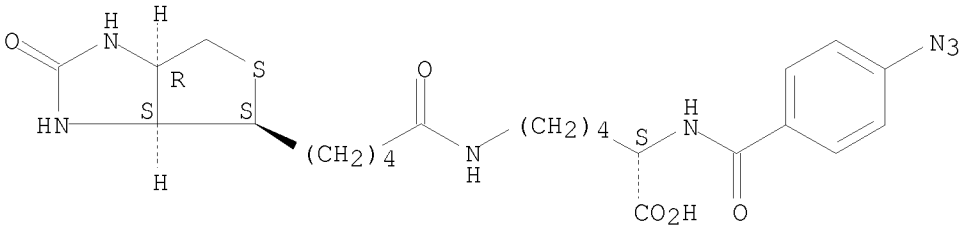
RN 135417-95-7 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azidobenzoyl)amino]-6-[[2-(4-hydroxyphenyl)ethyl]amino]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 135442-12-5 CAPLUS
CN L-Lysine, N2-(4-azidobenzoyl)-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]-imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

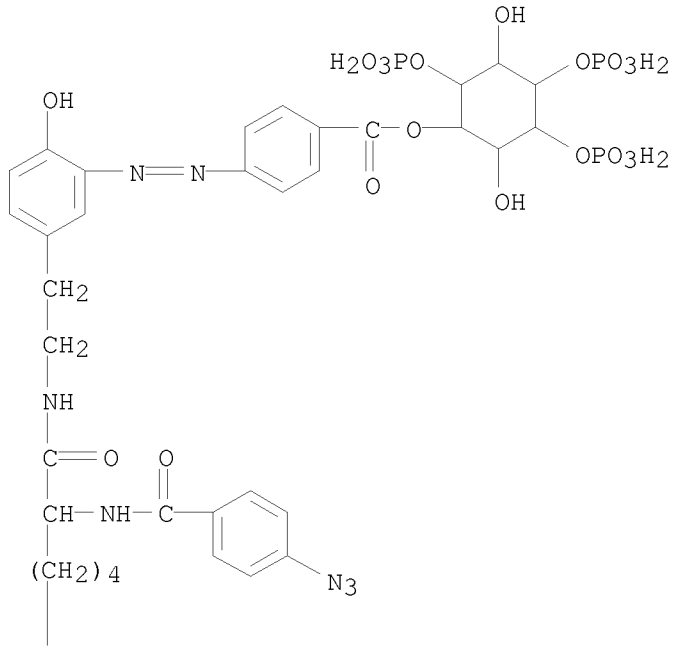
Absolute stereochemistry.



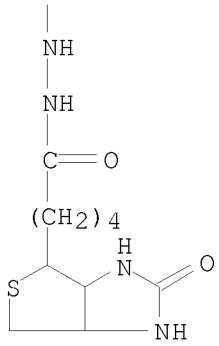
IT 135442-10-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as biotin-avidin complex probe)

RN 135442-10-3 CAPLUS
CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate] 1,4,5-tris(dihydrogen phosphate), monopotassium salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



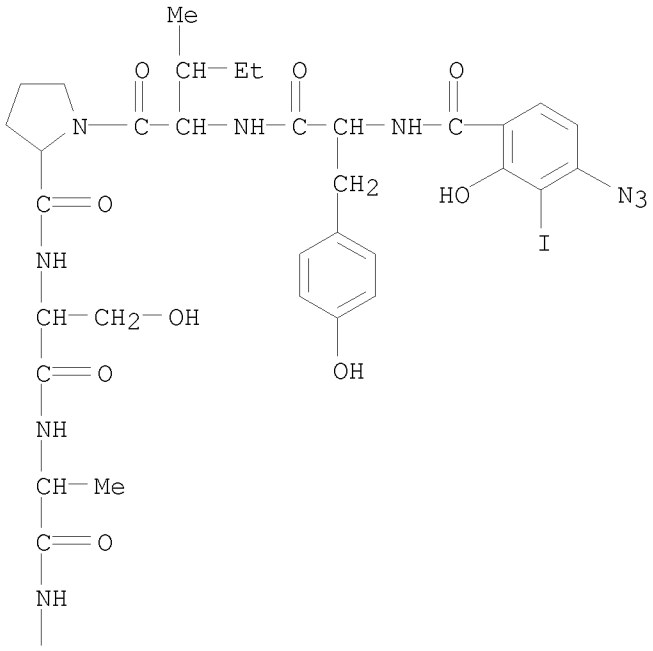
● K

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

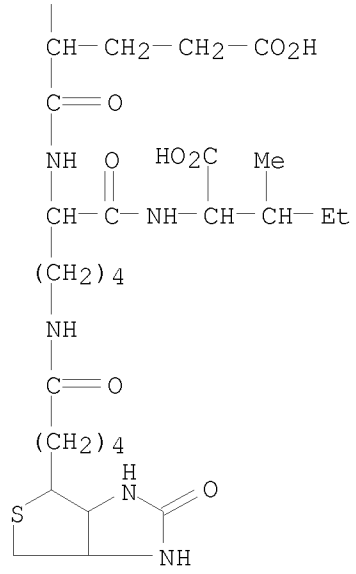
L8 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:405658 CAPLUS
DOCUMENT NUMBER: 117:5658
ORIGINAL REFERENCE NO.: 117:1179a,1182a
TITLE: Interaction of antigenic peptides with MHC class I molecules on living cells studied by photoaffinity labeling
AUTHOR(S): Luescher, Immanuel F.; Loez, Jose Alejandro; Malissen,

Bernard; Cerottini, Jean Charles
CORPORATE SOURCE: Lausanne Branch, Ludwig Inst. Cancer Res., Epalinges, 1066, Switz.
SOURCE: Journal of Immunology (1992), 148(4), 1003-11
CODEN: JOIMA3; ISSN: 0022-1767
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Using a direct binding assay based on photoaffinity labeling, the authors studied the interaction of antigenic peptides with murine MHC class I mols. on living cells. Photoreactive derivs. were prepared by N-terminal amidation with iodo, 4-azido salicylic acid of the Kd restricted Plasmodium berghei circumsporozoite (P.b. CS) peptide 253-260 (YIPSAEKI) and the Db-restricted adenovirus 5 early region 1A (Ad5 E1A) peptide 234-243 (SGPSNTPPEI). As assessed in functional competition expts., both peptide derivs. retained the specific binding activity of the parental peptides for Kd or Db, resp. The P.b. CS photoprobe specifically labeled Kd mols. on P815 (H-2d) cells, but failed to label RMA (H-2b) cells. Conversely, the Ad5 E1A photoprobe specifically labeled Db mols. on RMA cells, but failed to label P815 cells. When the two photoprobes were tested on a panel of Con A-activated spleen cells expressing 10 different H-2 haplotypes, significant photoaffinity labeling was observed only on H-2d cells with the P.b. CS photoprobe and on H-2b cells with the Ad5 E1A photoprobe. Labeling of cell-associated Kd or Db mols. with the photoprobes was specifically inhibited by antigenic peptides known to be presented by the same class I mol. Photoaffinity labeling of Kd with the P.b. CS photoprobe was used to study the dynamics of peptide binding on living P815 cells. Binding increased steadily with the incubation period (up to 8 h) at 37° and at ambient temperature, but was greatly reduced (>95%) at 0 to 4° or in the presence of ATP synthesis inhibitors. The magnitude of the labeling was twofold higher at room temperature than at 37°. In contrast, binding to isolated Kd mols. in solution rapidly reached maximal binding, particularly at 37°. Dissociation of the photoprobe from either cell-associated or soluble Kd mols. was similar, with a half time of .apprx.1 h at 37°, whereas the complexes were long-lived at 4° in both instances.
IT 140158-18-5P
RL: PREP (Preparation)
(preparation of, histocompatibility class I antigen binding in relation to)
RN 140158-18-5 CAPLUS
CN L-Isoleucine, N-[N2-[N-[N-[N-[1-[N-[N-(4-azido-2-hydroxy-3-iodobenzoyl)-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L8 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:169533 CAPLUS
DOCUMENT NUMBER: 116:169533
ORIGINAL REFERENCE NO.: 116:28563a,28566a
TITLE: Synthesis and characterization of a photoaffinity probe possessing biotinyl and azidobenzoyl moieties

for IP3-affiniated protein

AUTHOR(S): Watanabe, Yutaka; Hirata, Masato; Ogasawara, Tomio; Koga, Toshitaka; Ozaki, Shoichiro

CORPORATE SOURCE: Fac. Eng., Ehime Univ., Matsuyama, 790, Japan

SOURCE: Bioorganic & Medicinal Chemistry Letters (1991), 1(8), 399-402
CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE: Journal

LANGUAGE: English

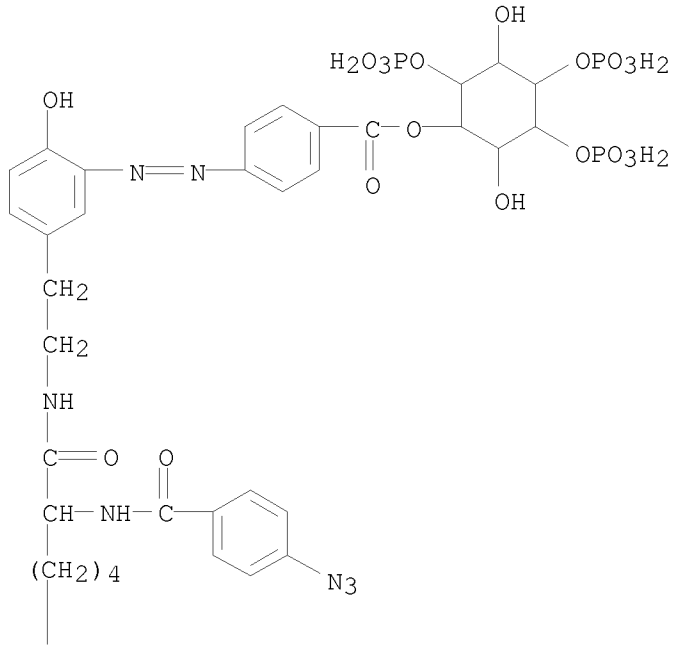
AB A myo-inositol 1,4,5-tris(phosphate) analog bearing p-azidobenzoyl and biotinyl moieties has been prepared and shown to act as a photoaffinity probe for myo-inositol 1,4,5-tris(phosphate) 5-phosphatase.

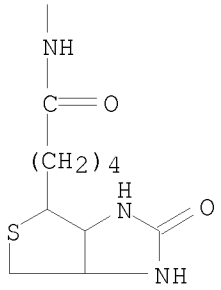
IT 140220-70-8P
RL: PREP (Preparation)
(preparation and characterization of, as photoaffinity probe)

RN 140220-70-8 CAPLUS

CN D-myo-Inositol, 2-[4-[[5-[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]-2-hydroxyphenyl]azo]benzoate] 1,4,5-tris(dihydrogen phosphate) (9CI) (CA INDEX NAME)

PAGE 1-A





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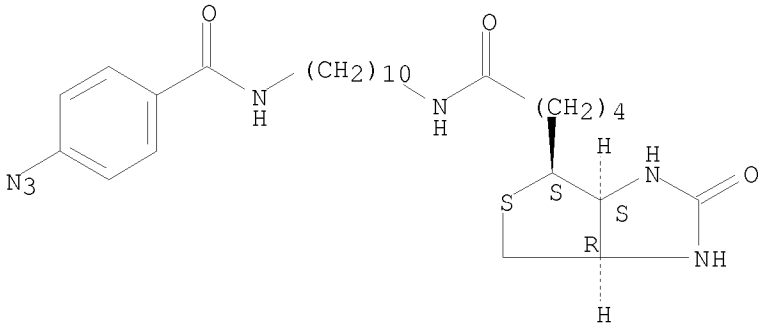
L8 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1991:467675 CAPLUS
DOCUMENT NUMBER: 115:67675
ORIGINAL REFERENCE NO.: 115:11591a,11594a
TITLE: Azidobenzoyl-, azidoacridinyl-, diazocyclopentadienylcarbonyl- and 8-propyloxypsoralen photobiotinylation reagents. Syntheses and photoreactions with DNA and protein
AUTHOR(S): Henriksen, Ulla; Buchardt, Ole; Nielsen, Peter E.
CORPORATE SOURCE: H. C. Oersted Inst., Univ. Copenhagen, Copenhagen, DK-2100, Den.
SOURCE: Journal of Photochemistry and Photobiology, A: Chemistry (1991), 57(1-3), 331-42
CODEN: JPPCEJ; ISSN: 1010-6030
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:67675

AB A series of novel reagents is described for the photobiotinylation of DNA and protein. The reagents consist of a photoactive ligand (photoprobe) tethered to biotin via a polymethylene or azopolymethylene linker. The photoprobes are 4-azidobenzamido, 2-methoxy-6-azido-9-acridinylamino, 2-diazocyclopentadienylcarboxamido, 4-azido-2-nitroaniline and 8-(3-aminopropyloxy)psoralen. The reagents were irradiated with long-wavelength UV light in the presence of DNA or protein and the biotinylation was monitored by blotting to nitrocellulose and staining with avidin-alkaline phosphatase conjugate. The highest DNA photolabelling was obtained with reagents containing the 4-azidobenzamido or psoralen ligands with an amino group in the linker. The 4-azidobenzamido reagent also exhibited the highest protein labeling. Some of these new photobiotinylation reagents are superior to existing ones.

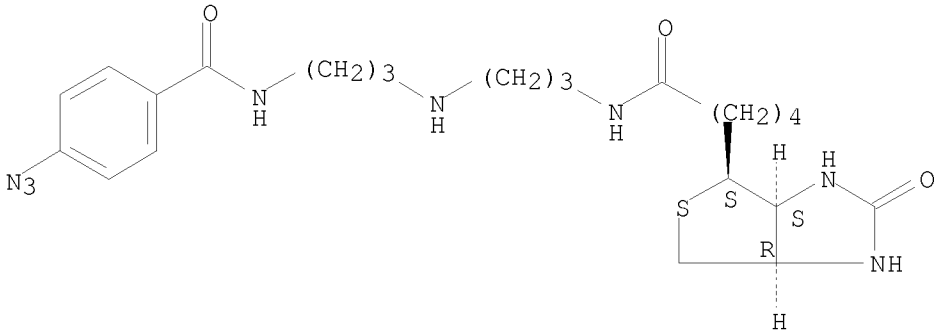
IT 134857-17-3P 134857-18-4P 134857-20-8P
134885-33-9P
RL: PREP (Preparation)
(preparation of, as photobiotinylation reagent, for DNA and protein)
RN 134857-17-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[10-[(4-azidobenzoyl)amino]decyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134857-18-4 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-[[3-[(4-azidobenzoyl)amino]propyl]amino]propyl]hexahydro-2-oxo-, monohydrochloride, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

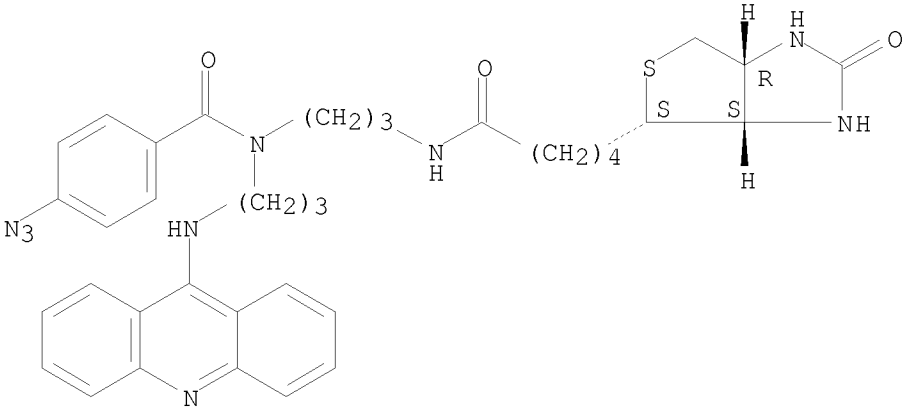
Absolute stereochemistry.



● HCl

RN 134857-20-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-[[3-(9-acridinylamino)propyl](4-azidobenzoyl)amino]propyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

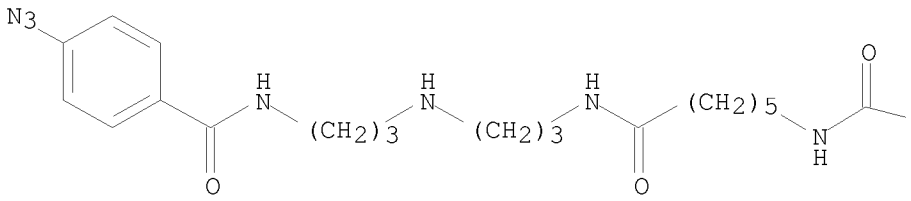
Absolute stereochemistry.



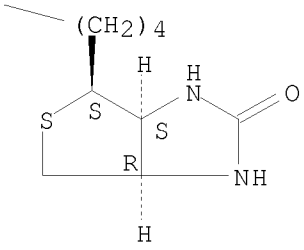
RN 134885-33-9 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[6-[[3-[[3-[(4-azidobenzoyl)amino]propyl]amino]propyl]amino]-6-oxohexyl]hexahydro-2-oxo-, dihydrochloride,
[3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



●2 HCl

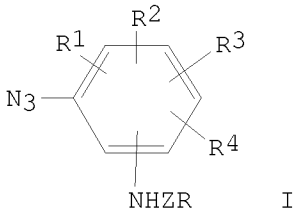


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L8 ANSWER 33 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1986:438750 CAPLUS
DOCUMENT NUMBER: 105:38750
ORIGINAL REFERENCE NO.: 105:6365a,6368a
TITLE: Non-radioactive biological probes
INVENTOR(S): Symons, Robert Henry
PATENT ASSIGNEE(S): Biotechnology Research Enterprises S. A. Pty. Ltd., Australia
SOURCE: Eur. Pat. Appl., 58 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
EP 155854	A2	19850925	EP 1985-301985	19850322	<--
EP 155854	A3	19860129			
EP 155854	B1	19900926			
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
AU 8540310	A	19851003	AU 1985-40310	19840322	<--
AU 580042	B2	19881222			
ZA 8502129	A	19851127	ZA 1985-2129	19850321	<--
CA 1249975	A1	19890214	CA 1985-477184	19850321	<--
JP 61000087	A	19860106	JP 1985-57667	19850322	<--
JP 06078289	B	19941005			
US 4898951	A	19900206	US 1988-191811	19880504	<--
PRIORITY APPLN. INFO.:			AU 1984-4200	A 19840322	
			AU 1984-7500	A 19841004	
			US 1985-712705	B1 19850315	

OTHER SOURCE(S): MARPAT 105:38750
GI



I

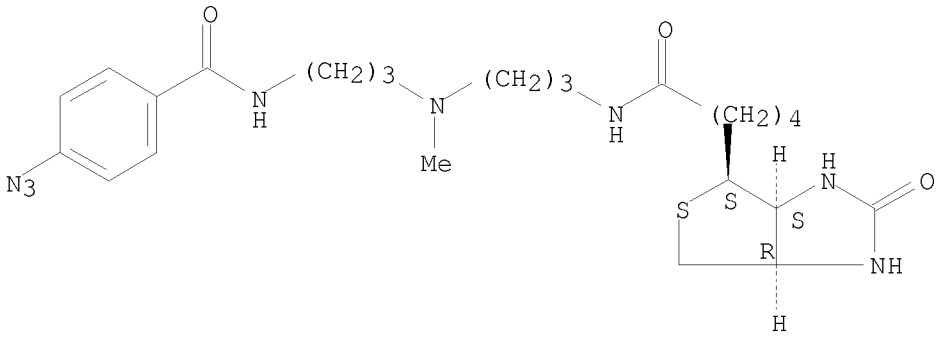
AB Nonradioactive probes of form I (R = ligand, hapten; R1-R4 = H, halogen, C1-5 alkyl, nitro, carboxylic acid, or amino; Z = hydrocarbyl amine containing ≥5 C; NHZR may or may not be in the para position relative to N3) are synthesized and their use as intermediates in the preparation of nonradioactive biol. probes is described. Preferentially R is a residue which when coupled to a nucleic acid is capable of forming a detectable complex with a protein or other mol. or which enables a labeled polynucleotide to be selectively extracted from unlabeled polynucleotides. Thus photobiotin acetate (prepared in 3 steps from N-(3-aminopropyl)-N-(4-azido-2-nitrophenyl)-N-Me 1,3-propanediamine and d-biotinyl-N-hydroxysuccinimide ester) was added to an equal amount of nucleic acid in water. The solution was sealed inside a glass tube, cooled in an ice-water bath, and irradiated for 15 min. The solution was then added to tris buffer and water and extracted with butanol. The aqueous phase was separated, NaOAc and cold EtOH added and the biotin-labeled nucleic acid precipitated by chilling. A red pellet was obtained by centrifugation; the pellet was washed with EtOH, dried in vacuo, and dissolved in EDTA. Single-stranded M13 DNA probes labeled with 1 biotin/100-400 residues detected as little as 0.5 pg (6 + 10-18 mol) of target DNA in dot-blot hybridization reactions on nitrocellulose using alkaline or acid phosphatase. The detection of target RNA in dot blots and northern blots was equivalent in sensitivity to radioactive methods. Photobiotin acetate can also be used as a protein-labeling reagent.

IT 101637-63-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as nonradioactive biol. probe)

RN 101637-63-2 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-[[3-[(4-azidobenzoyl)amino]propyl]methylamino]propyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

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YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:d his
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L8   ANSWER 1 OF 33  CAPLUS  COPYRIGHT 2010 ACS on STN
AN   2004:772456  CAPLUS
DN   142:389159
TI   Synthetic probe compounds for the bioorganic studies of nyctinastic
     leaf-movement in leguminous plants
AU   Sugimoto, Takanori; Fujii, Tomohiko; Yamamura, Shosuke; Ueda, Minoru
CS   Laboratory of Natural Products, Department of Chemistry, Faculty of
     Science and Technology, Keio University, Hiyoshi, Yokohama, 223-8522,
     Japan
SO   Trends in Heterocyclic Chemistry (2003), 9, 101-107
     CODEN: TIHCE6
PB   Research Trends
DT   Journal
LA   English
OS   CASREACT 142:389159
RE.CNT  9     THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d ibib abs hitstr 13-22
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y



L8   ANSWER 13 OF 33  CAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:        1997:506853  CAPLUS
DOCUMENT NUMBER:         127:131981
ORIGINAL REFERENCE NO.:  127:25369a,25372a
TITLE:                   Compositions and methods for targeting gene delivery
                         vehicles using targeting elements covalently bound to
                         gene delivery vehicles through linking agents
INVENTOR(S):             Moore, Margaret D.; Respess, James G.
PATENT ASSIGNEE(S):      Chiron Viagene, Inc., USA
```

SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9723608	A1	19970703	WO 1996-US20543	19961218 <--

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: US 1995-577282 A 19951222
US 1996-767454 A 19961216

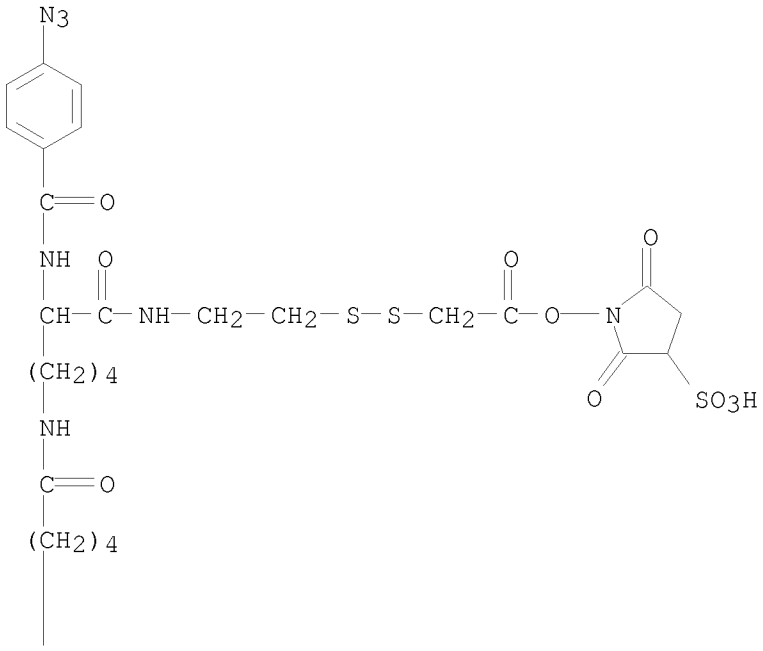
AB The invention described herein relates to compns. and methods for targeting gene delivery vehicles. Specifically, the invention relates to utilizing multifunctional linking agents, i.e., homo-bifunctional, heterobifunctional, and trifunctional linking agents, to covalently bind targeting elements to the exterior of gene delivery vehicles. Following administration of such targeted gene delivery vehicles to an animal, the targeted elements interact with a specific mol. on the surface of the target cells, after which the desired nucleic acid mol. is introduced into the target cell and expressed. The described targeting mechanism allows gene delivery vehicles to be delivered to specific target cell or tissue types with greater specificity than occurs when the gene delivery vehicle administered lacks such a a covalently bound targeting element. In an example, 4(4-N-maleimidophenyl)butyric acid hydride ·HCl·1/2 dioxane (MPBH) is a heterobifunctional non-cleavable linking agent containing a hydrazide group and maleimide that react with carbohydrates and sulfhydryls, resp. Animal cells lines were used in assays using β-galactosidase gene expression and histochem. staining to demonstrate uptake of gene delivery vehicles. Gene delivery vehicles were also injected into human and non-human animals. Patients preferably receive doses of 106-1011 targeted gene delivery vehicles I.V., intra-arterially, in the local vasculature or peritumorally, in a volume of 0.1-3 mL.

IT 163657-86-1
RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(linking agent; compns. and methods for targeting gene delivery vehicles using targeting elements covalently bound to gene delivery vehicles through linking agents)

RN 163657-86-1 CAPLUS

CN Acetic acid, 2-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester (CA INDEX NAME)

PAGE 1-A



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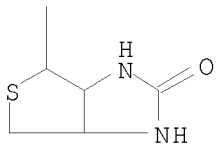


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:412440 CAPLUS
DOCUMENT NUMBER: 127:66182
ORIGINAL REFERENCE NO.: 127:12659a
TITLE: An efficient three dimensional orthogonal strategy for solid-phase synthesis of a bifunctional peptide
AUTHOR(S): Lelievre, Dominique; Daguet, David; Piller, Friedrich; Piller, Veronique; Vassard, Cecile; Brack, Andr
CORPORATE SOURCE: Centre de Biophysique Moleculaire, Orleans, 45071, Fr.
SOURCE: Innovation and Perspectives in Solid Phase Synthesis & Combinatorial Libraries: Peptides, Proteins and Nucleic Acids--Small Molecule Organic Chemical Diversity, Collected Papers, International Symposium, 4th, Edinburgh, Sept. 12-16, 1995 (1996), Meeting Date 1995, 459-460. Editor(s): Epton, Roger. Mayflower Scientific: Birmingham, UK.
CODEN: 64ONA9
DOCUMENT TYPE: Conference
LANGUAGE: English

AB A symposium report on the preparation of bifunctional peptide Biotin-(Thr-Ser-Pro)4-Lys(ASA)-Gly-OH (I; ASA = 4-azidosalicylic acid) by solid-phase methods with a 3-dimensional orthogonal strategy using 9-fluorenylmethoxycarbonyl (Fmoc) as Nα-transient protection and the new protecting group 1-(4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)ethyl (Dde) as a temporary protecting group for Nε-lysine. I is a tool to identify the active site of GalNAc transferase.

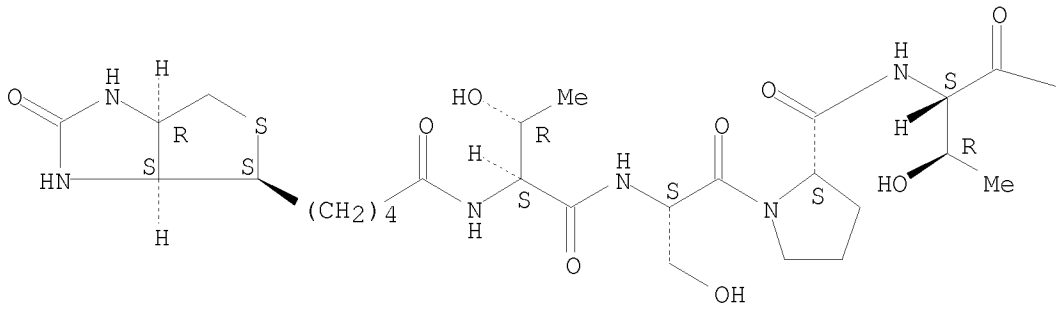
IT 174138-09-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(efficient 3-dimensional orthogonal strategy for solid-phase synthesis of a biotin-containing bifunctional peptide)

RN 174138-09-1 CAPLUS

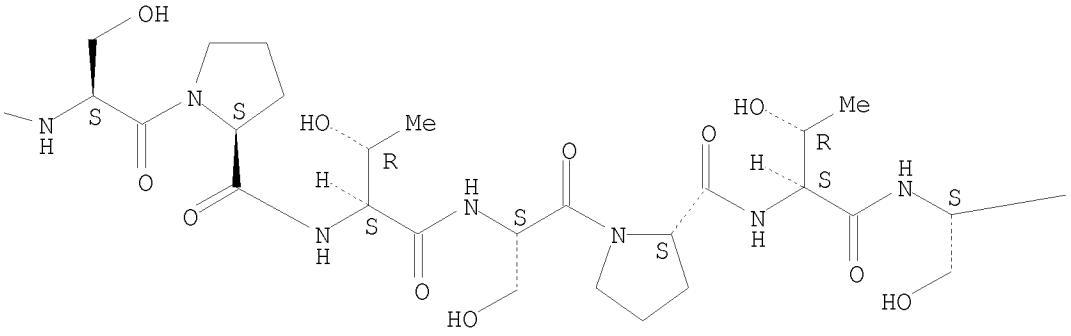
CN Glycine, N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-N6-(4-azido-2-hydroxybenzoyl)-L-lysyl-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

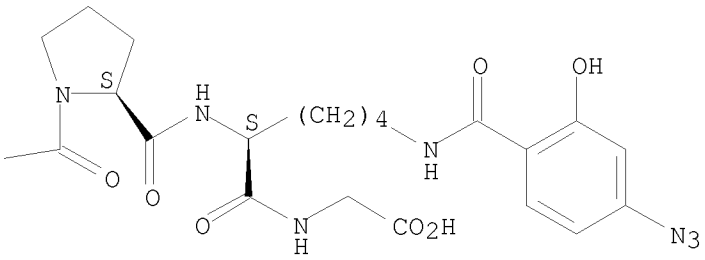
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





L8 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:374799 CAPLUS
DOCUMENT NUMBER: 126:340473
ORIGINAL REFERENCE NO.: 126:66131a,66134a
TITLE: CD23 processing enzyme from human B-cells
INVENTOR(S): Buckle, Derek Richard; Christie, Gary; Marolewski, Ariane Elizabeth; Mayer, Ruth Judik; Smith, David Glynn
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA; Buckle, Derek Richard; Christie, Gary; Marolewski, Ariane Elizabeth; Mayer, Ruth Judik; Smith, David Glynn
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 9713848	A1	19970417	WO 1996-US16416		19961010	<--
W: JP, US						
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE						
EP 854915	A1	19980729	EP 1996-936453		19961010	<--
EP 854915	B1	20050511				
R: BE, CH, ES, FR, GB, IT, LI, NL						
JP 2000500324	T	20000118	JP 1997-515275		19961010	<--
ES 2241006	T3	20051016	ES 1996-936453		19961010	
US 6232089	B1	20010515	US 1998-51529		19980821	<--
PRIORITY APPLN. INFO.:			US 1995-5316P	P	19951010	
			US 1996-13427P	P	19960314	
			WO 1996-US16416	W	19961010	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A novel CD23-processing enzyme (I) is provided which is of importance in the human immune response and regulation of IgE production, and is expressed on the surface of a variety of cells. I was detected in RPMI8866 cells, a human Epstein-Barr virus-transformed B-cell, and purified after detergent solubilization by chromatog. on heparin-agarose, Q-Sepharose, Mono S, gel filtration, and metal and dye affinity chromatog. The enzyme cleaves CD23 (the low affinity IgE receptor, FcεRII) into fragments of apparent mol. weight 37 and 33 kDa. It is inhibited by [4-(N-hydroxyamino)-2-(R)-isobutyl-3-(S)-(2-thiophenethiomethyl)-succinyl]-(S)-phenylalanine-N-methylamine and 1,10-phenanthroline, and has a pH optimum in the range 7.5-9.0. I can be used to identify inhibitors of CD23 processing. Several photolabeling compds. were synthesized.

IT 189754-46-9P

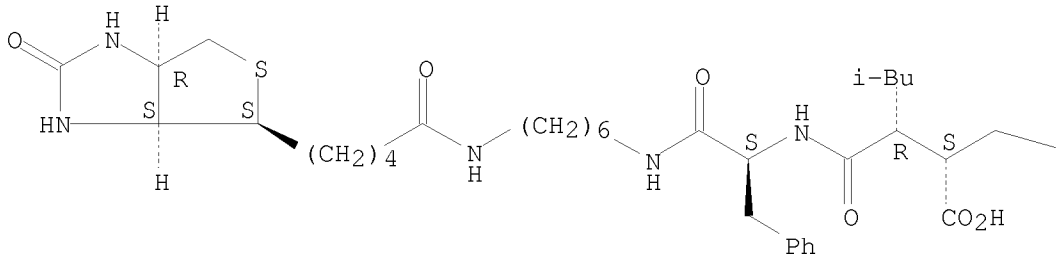
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(syntheses of photolabeling and affinity reagents; CD23 processing enzyme from human B-cells)

RN 189754-46-9 CAPLUS

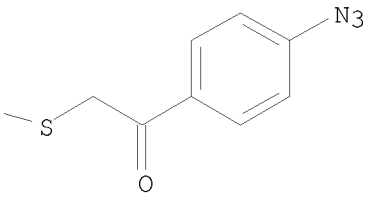
CN Hexanoic acid, 2-[[[2-(4-azidophenyl)-2-oxoethyl]thio]methyl]-3-[[[(1S)-2-[[6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexyl]amino]-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-, (2S,3R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IT 189754-50-5P

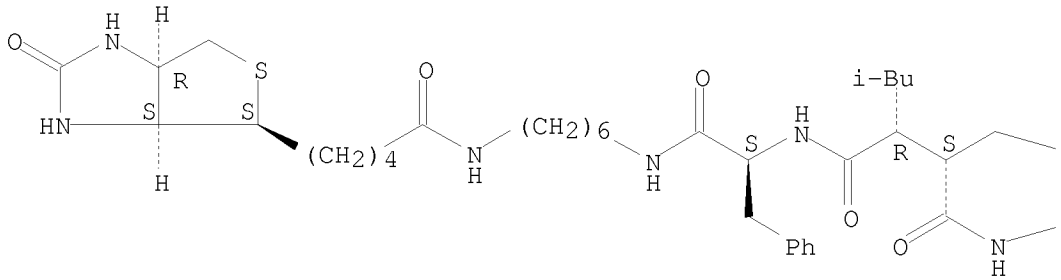
RL: SPN (Synthetic preparation); PREP (Preparation)
(syntheses of photolabeling and affinity reagents; CD23 processing enzyme from human B-cells)

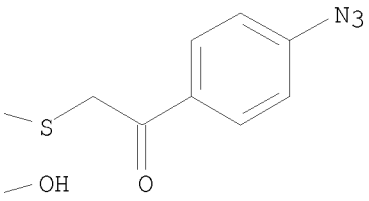
RN 189754-50-5 CAPLUS

CN Butanediamide, 2-[[[2-(4-azidophenyl)-2-oxoethyl]thio]methyl]-N4-[(1S)-2-[[6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexyl]amino]-2-oxo-1-(phenylmethyl)ethyl]-N1-hydroxy-3-(2-methylpropyl)-, (2S,3R)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

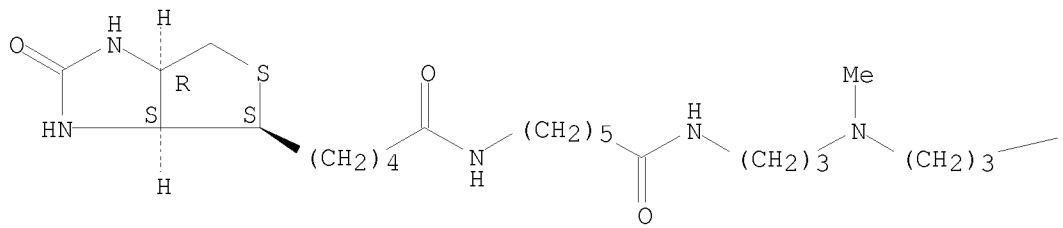


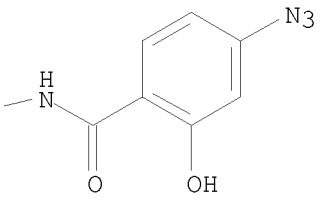


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:685906 CAPLUS
DOCUMENT NUMBER: 126:137496
ORIGINAL REFERENCE NO.: 126:26459a,26462a
TITLE: Absorption spectra and photochemical characteristics of new photobiotin
AUTHOR(S): Blinova, K. G.; Yuzhakov, V. I.; Shcherbo, S. N.; Turchinskii, M. F.
CORPORATE SOURCE: Mosk. Gos. Univ., Moscow, Russia
SOURCE: Vestnik Moskovskogo Universiteta, Seriya 3: Fizika, Astronomiya (1996), (3), 45-49
CODEN: VMUFAO; ISSN: 0579-9392
PUBLISHER: Izdatel'stvo Moskovskogo Universiteta
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB A new photobiotin was synthesized from di(3-aminopropyl)methylamine and ε-amidocaproylbiotin and 4-azidosalicylic acid. Dynamics of optical absorption of aqueous solution of this compound was studied as a function of pH and irradiation dose.
IT 186420-70-2P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(absorption spectra and photochem. characteristics of photobiotin synthesized from di(3-aminopropyl)methylamine and ε-amidocaproylbiotin and 4-azidosalicylic acid)
RN 186420-70-2 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[[3-[[3-[(4-azido-2-hydroxybenzoyl)amino]propyl]methylamino]propyl]amino]-6-oxohexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

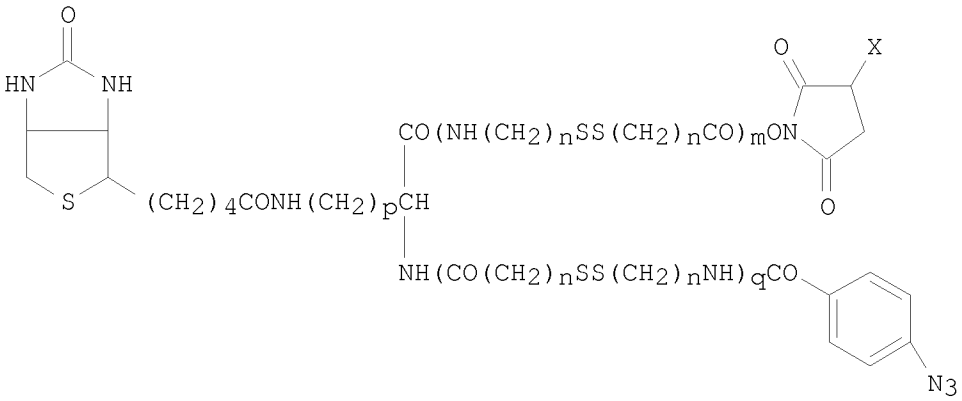




L8 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:452802 CAPLUS
DOCUMENT NUMBER: 125:142464
ORIGINAL REFERENCE NO.: 125:26661a,26664a
TITLE: preparation of biotin-containing heterobifunctional cleavable compounds as crosslinking agents for trypsin
INVENTOR(S): Fujimoto, Edward K.
PATENT ASSIGNEE(S): Pierce Chemical Co., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5532379	A	19960702	US 1995-435206	19950505 <--
PRIORITY APPLN. INFO.:			US 1995-435206	19950505

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 125:142464; MARPAT 125:142464
GI



I

AB Trifunctional crosslinking compds. I (m, q = 0, 1; X = H, SO3Na; n, p = 1-10) are disclosed. The compds. contain the biotin moiety, the NHS active ester, and a photoactivatable aryl azide. The presence of a

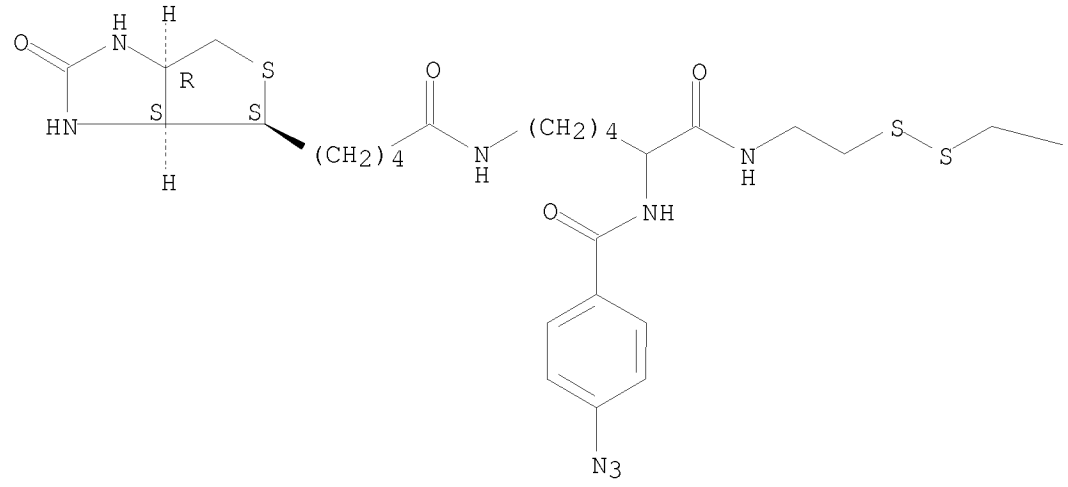
disulfide bond in association with either the ester or azide permits the compound to be cleaved. Thus, succinimidoyl 2-(4-azidobenzamido)-6-(biotinamido)hexanoate (preparation given) was reacted with 2-aminoethyl 2'-carboxyethyl disulfide and the product reacted with 3-sulfo-N-hydroxysuccinimide to give I (m = 1; q = 0; X = SO3Na; n = 2; p = 4). This conjugated readily with trypsin by incubating for 3.5 min. at room temperature followed by photolysis with a long wave UV lamp.

IT 1231898-47-7 1231898-48-8
RL: PRPH (Prophetic)
(preparation of biotin-containing heterobifunctional cleavable compounds as crosslinking agents for trypsin)

RN 1231898-47-7 CAPLUS
CN Propanoic acid, 3-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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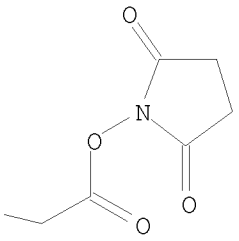
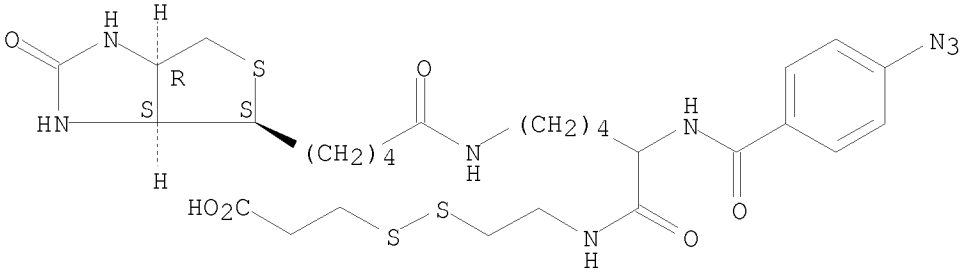


RN 1231898-48-8 CAPLUS
CN Propanoic acid, 3-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]- (CA INDEX NAME)

Absolute stereochemistry.



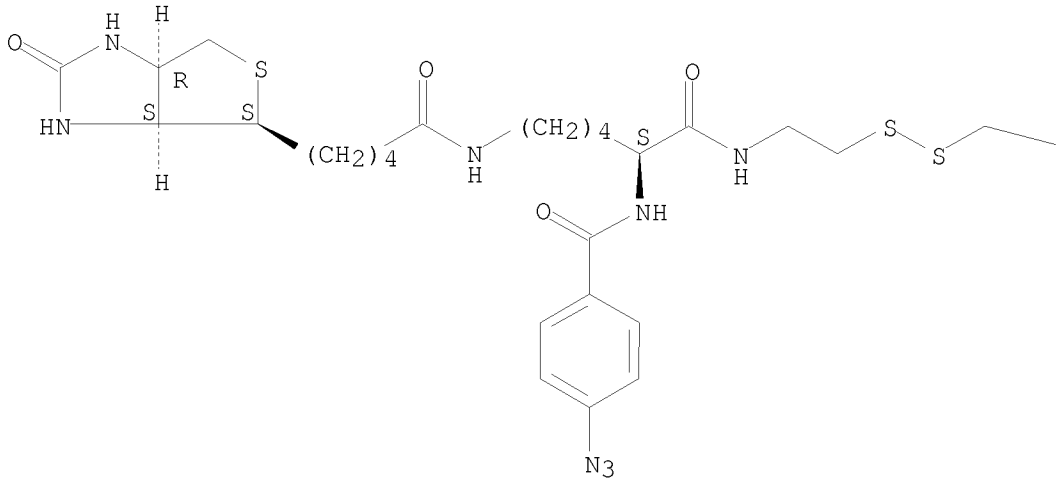
IT 179763-59-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of biotin-containing heterobifunctional cleavable compds. as crosslinking agents for trypsin)

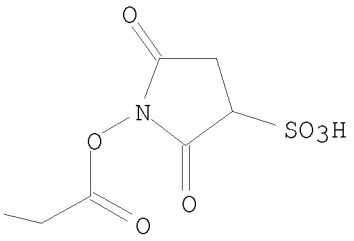
RN 179763-59-8 CAPLUS

CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



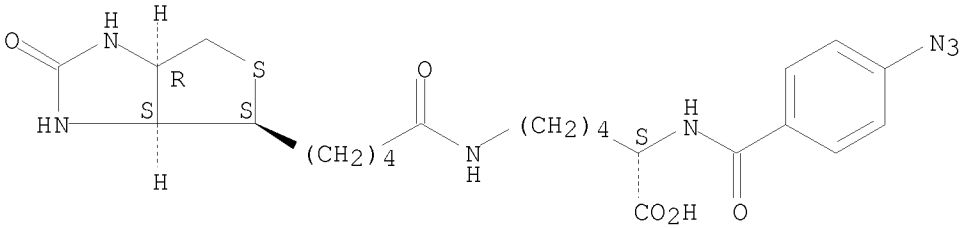


● Na

IT 135442-12-5P 143304-60-3P 179763-58-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of biotin-containing heterobifunctional cleavable compds. as crosslinking agents for trypsin)

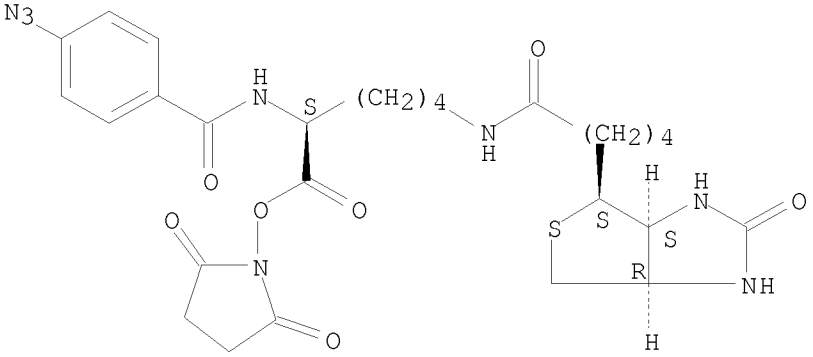
RN 135442-12-5 CAPLUS
CN L-Lysine, N2-(4-azidobenzoyl)-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]-imidazol-4-yl)-1-oxopentyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 143304-60-3 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(4-azidobenzoyl)amino]-6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]hexahydro-2-oxo-, [3aS-[3aα,4β(R*),6aα]]- (9CI) (CA INDEX NAME)

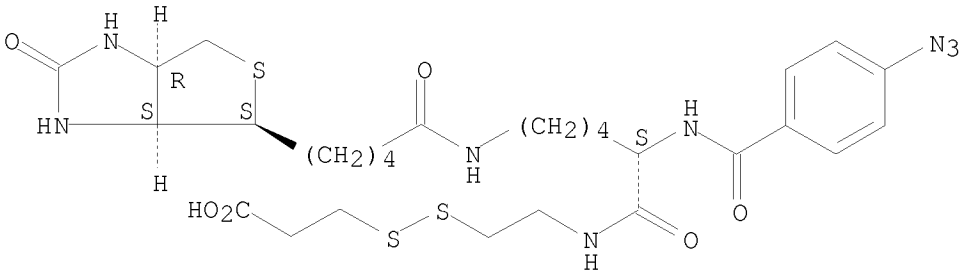
Absolute stereochemistry.



RN 179763-58-7 CAPLUS
CN Propanoic acid, 3-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-1-

oxohexyl]amino]ethyl]dithio]-, [3aS-[3aα,4β(R*),6aα]]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

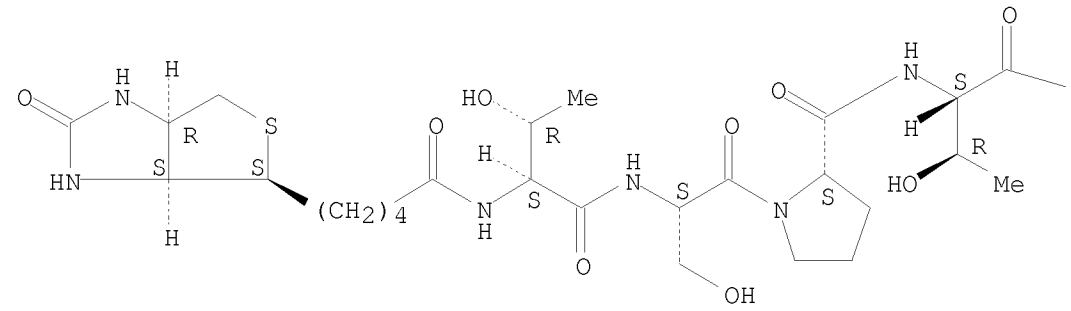


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L8 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:5408 CAPLUS
DOCUMENT NUMBER: 124:203031
ORIGINAL REFERENCE NO.: 124:37557a,37560a
TITLE: Online solid-phase synthesis of a peptide bi-derivatized with biotin and 4-azidosalicylic acid
AUTHOR(S): Lelievre, Dominique; Daguet, David; Brack, Andre
CORPORATE SOURCE: Centre Biophysique Moleculaire, Orleans, 45071, Fr.
SOURCE: Tetrahedron Letters (1995), 36(51), 9317-20
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The peptide (TSP)4 is an efficient substrate for GalNAc transferase. To localize the active site of GalNAc transferase, Biotin-(TSP)4-Lys(ASA)-G was prepared by online solid phase synthesis using Fmoc strategy. The new protecting group, 1-(4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)ethyl (Dde) was used as a temporary protecting group for lysine N. The bi-derivatized peptide was characterized by mass spectrometry and FTIR spectrometry. This strategy can be generalized to other bi-derivatized peptides synthesized for ligand-receptor studies.
IT 174138-09-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(solid-phase synthesis of a peptide bi-derivatized with biotin and 4-azidosalicylic acid)
RN 174138-09-1 CAPLUS
CN Glycine, N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-L-threonyl-L-seryl-L-prolyl-N6-(4-azido-2-hydroxybenzoyl)-L-lysyl-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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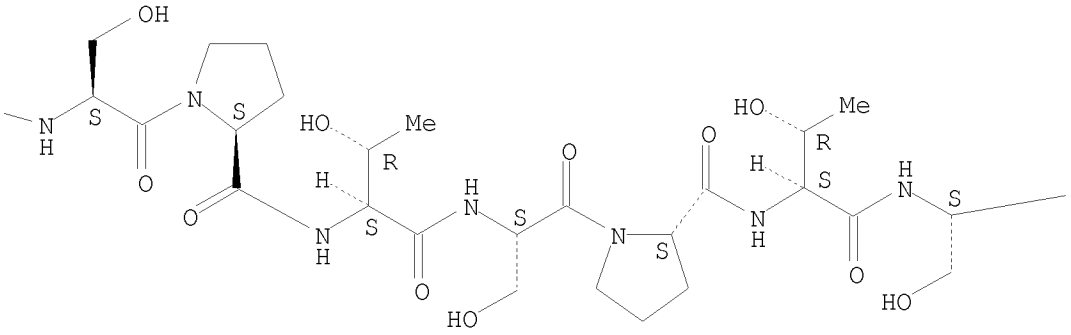
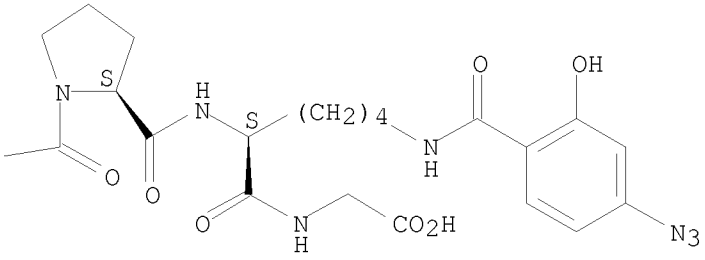


PAGE 1-C

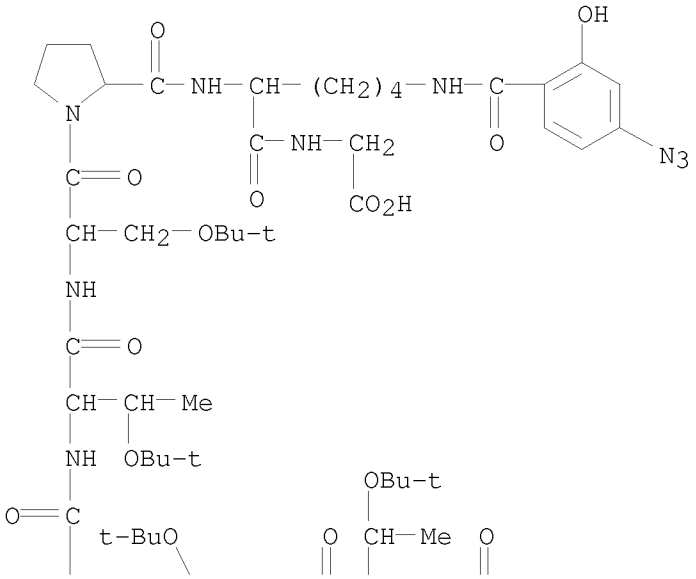


IT 174138-08-0DP, polymer-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of a peptide bi-derivatized with biotin and 4-azidosalicylic acid)

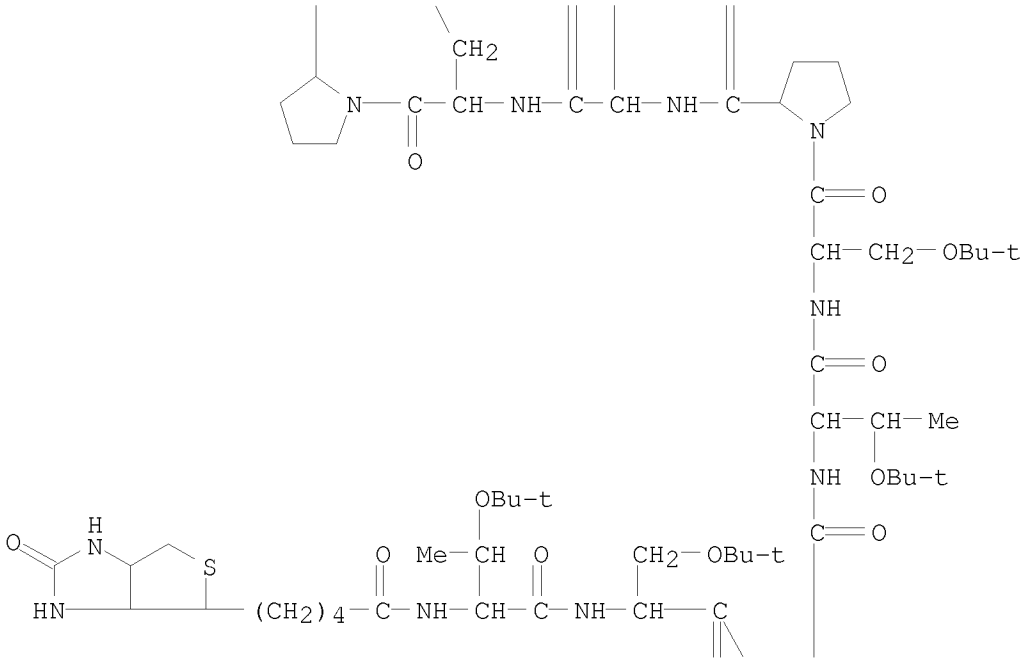
RN 174138-08-0 CAPLUS

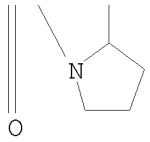
CN Glycine, O-(1,1-dimethylethyl)-N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-threonyl-O-(1,1-dimethylethyl)-L-seryl-L-prolyl-O-(1,1-dimethylethyl)-L-threonyl-O-(1,1-dimethylethyl)-L-seryl-L-prolyl-O-(1,1-dimethylethyl)-L-threonyl-O-(1,1-dimethylethyl)-L-seryl-L-prolyl-O-(1,1-dimethylethyl)-L-threonyl-O-(1,1-dimethylethyl)-L-seryl-L-prolyl-N6-(4-azido-2-hydroxybenzoyl)-L-lysyl-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A





OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L8 ANSWER 19 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:828611 CAPLUS
DOCUMENT NUMBER: 123:222328
ORIGINAL REFERENCE NO.: 123:39503a,39506a
TITLE: Interference-reducing agents for use in immunoassays
INVENTOR(S): Kientsch-Engel, Rosemarie; Donie, Frederic; Wiedmann, Michael
PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Germany
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4407423	A1	19950907	DE 1994-4407423	19940305 <--
WO 9523800	A1	19950908	WO 1995-EP690	19950225 <--
W: CA, CN, FI, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 697021	A1	19960221	EP 1995-909783	19950225 <--
EP 697021	B1	20000705		
R: AT, BE, DE, DK, ES, FR, GB, GR, IE, IT, NL, PT				
JP 08508301	T	19960903	JP 1995-522680	19950225 <--
JP 2750003	B2	19980513		
AT 194349	T	20000715	AT 1995-909783	19950225 <--
CA 2184386	A1	19950908	CA 1995-2184386	19950303 <--
CA 2184386	C	20051018		
WO 9523801	A1	19950908	WO 1995-EP776	19950303 <--
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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 749435	A1	19961227	EP 1995-912194	19950303 <--
EP 749435	B1	20001011		
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CN 1143368	A	19970219	CN 1995-191975	19950303 <--
CN 1102594	C	20030305		
JP 09510289	T	19971014	JP 1995-522705	19950303 <--
JP 3027770	B2	20000404		
AT 196906	T	20001015	AT 1995-912194	19950303 <--
ES 2152392	T3	20010201	ES 1995-912194	19950303 <--
PT 749435	E	20010330	PT 1995-912194	19950303 <--
FI 9603461	A	19960904	FI 1996-3461	19960904 <--
FI 114341	B1	20040930		
US 5863740	A	19990126	US 1996-700435	19960905 <--
US 5952185	A	19990914	US 1997-958870	19971027 <--

PRIORITY APPLN. INFO.:		
DE 1994-4407423	A	19940305
WO 1995-EP690	W	19950225
WO 1995-EP776	W	19950303
US 1995-535072	B1	19951103

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The finding concerns interference-reducing agents for avoiding nonspecific reactions in immunoassays wherein the agents used are avidin or streptavidin or their derivs. Interferences in heterogeneous immunoassays can decrease sensitivity and specificity and even cause false-pos. anal. results especially in the determination of antibodies. The agents can be used for improving immunoassays of, e.g., haptens, antigens, or antibodies in, e.g., body fluids. Examples are given of the preparation of, e.g., crosslinked streptavidin after activation by various crosslinking agents, of bovine serum albumin-streptavidin conjugates, etc.

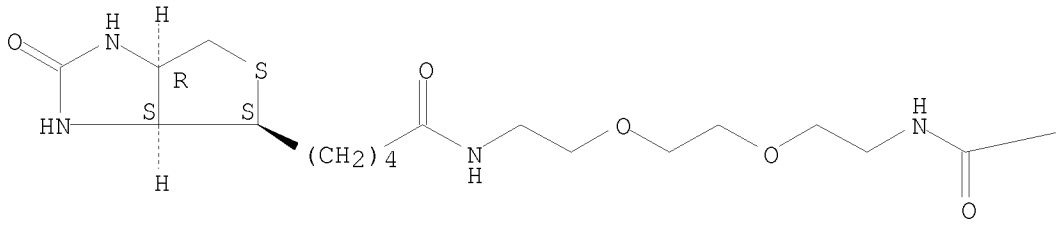
IT 168411-59-4DP, streptavidin conjugates
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(interference-reducing agents for use in immunoassays)

RN 168411-59-4 CAPLUS

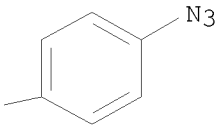
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-[2-[2-[(4-azidobenzoyl)amino]ethoxy]ethoxy]ethyl]hexahydro-2-oxo-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L8 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:699341 CAPLUS

DOCUMENT NUMBER: 123:106175

ORIGINAL REFERENCE NO.: 123:18783a,18786a

TITLE: Modular Design of Biotinylated Photoaffinity Probes: Synthesis and Utilization of a Biotinylated Pepstatin Photoprobe

AUTHOR(S): Gilbert, Bryant A.; Rando, Robert R.

CORPORATE SOURCE: Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA, 02115, USA

SOURCE: Journal of the American Chemical Society (1995), 117(31), 8061-6
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

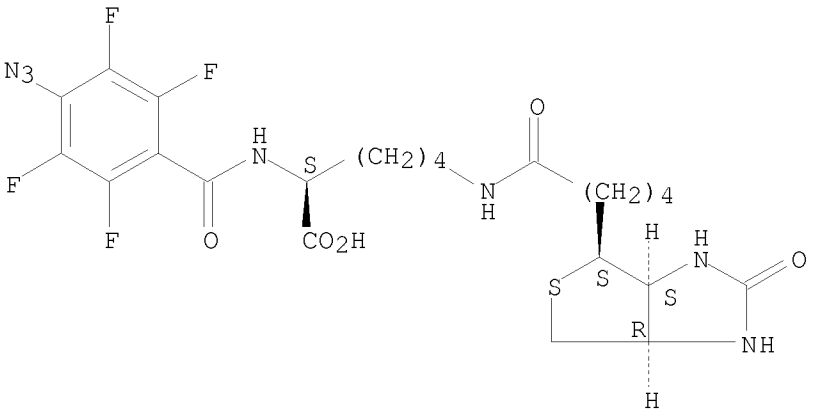
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:106175

AB A novel modular design is presented for the introduction of biotinylated photoprobes containing either 4-azidotetrafluorobenzamide, 4-(1-azi-2,2,2-trifluoroethyl)benzamide, or 4-benzoylbenzoylamide. The use of biotinylated affinity labels offers several advantages over radiolabeled probes by virtue of their exploitation of the biotin-avidin system of detection and purification A biotinylated benzoylbenzoyl photoprobe of pepstatin (BBB-pepstatin, 5) was synthesized in three steps from pepstatin. The photoprobe is a competitive inhibitor of porcine pepsin, with an apparent dissociation constant of 31 pM. Western blotting of BBB-pepstatin-photolabeled porcine pepsin, renin, cathepsin D and human renin, and cathepsin D could be detected with an avidin-horseradish peroxidase label. Routinely, 7 pM of aspartic protease could be photolabeled and detected with this system. The pepstatin photoaffinity probe is also very selective; the probe failed to label cysteine protease (papain), metalloprotease (carboxypeptidase A), and serine protease (chymotrypsin and trypsin). To further establish the utility of the biotinylated probe, BBB-pepstatin-photolabeled porcine pepsin was purified by monomeric avidin chromatog. This probe should be useful for the identification of unknown cytosolic and membrane-bound aspartic proteases.

IT 165898-22-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(modular design of biotinylated photoaffinity probes - synthesis and utilization of a biotinylated pepstatin photoprobe)

RN 165898-22-6 CAPLUS
CN L-Lysine, N2-(4-azido-2,3,5,6-tetrafluorobenzoyl)-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (28 CITINGS)

L8 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:666972 CAPLUS
DOCUMENT NUMBER: 123:78846
ORIGINAL REFERENCE NO.: 123:13947a,13950a
TITLE: Quantitation of Triple-Helix Formation Using a Photo-Crosslinkable Aryl Azide/Biotin/Oligonucleotide Conjugate
AUTHOR(S): Geselowitz, Daniel A.; Neumann, Ronald D.
CORPORATE SOURCE: Clinical Center, National Institutes of Health, Bethesda, MD, 20892-1180, USA

SOURCE: Bioconjugate Chemistry (1995), 6(4), 502-6
CODEN: BCCHES; ISSN: 1043-1802
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

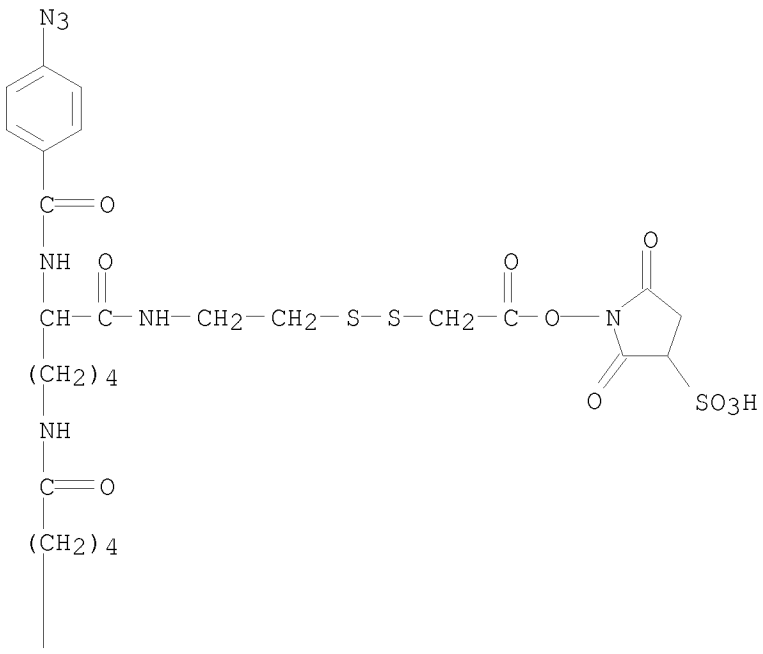
AB DNA triple-helix formation has potential applications in gene mapping and as the basis of "antigene" pharmaceuticals; however, the methods for quantitation of triple-helix formation are limited, especially for purine(purine-pyrimidine)-based triplexes. The authors present a novel method for detection and quantitation of triple-helix formation by triple-helix-forming oligonucleotides. The oligonucleotide is conjugated to a photoactivatable crosslinker, sulfosuccinimidyl 3-[2-[6-(biotinamido)-2-(p-azidobenzamido)hexanamido]ethyl]dithiopropionate. After incubation with the target DNA, exposure to light labels the target with biotin. The labeled target can be quantified by a chemiluminescent assay. A 26-mer oligonucleotide previously reported to form a purine(purine-pyrimidine) triplex with the upstream region of the c-myc gene was studied and found to bind to its target with Kd of approx. 100 nM at 37°, 10 mM MgCl2, pH 7.5, consistent with previous reports. This new technique can be used under a variety of conditions and in kinetic expts. and may be extendible to use in living cells.

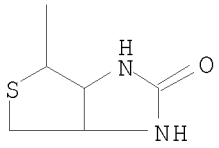
IT 163657-86-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(determination of triple-helix formation using photo-crosslinkable aryl azide/biotin/oligonucleotide conjugate)

RN 163657-86-1 CAPLUS

CN Acetic acid, 2-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester (CA INDEX NAME)

PAGE 1-A





OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

L8 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:652467 CAPLUS
DOCUMENT NUMBER: 123:51296
ORIGINAL REFERENCE NO.: 123:9127a,9130a
TITLE: Method for provoking immunity by peptides labeled with a photoactivatable group which binds to MHC molecules
INVENTOR(S): Romero, Pedro; Cerottini, Jean-Charles; Leuscher, Immanuel
PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research, USA
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9509642	A1	19950413	WO 1994-US10897		19940927 <--
W: AU, CA, FI, JP, NO, NZ					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
AU 9479589	A	19950501	AU 1994-79589		19940927 <--
PRIORITY APPLN. INFO.:			US 1993-133407	A	19931005
			US 1994-204014	A	19940224
			WO 1994-US10897	W	19940927

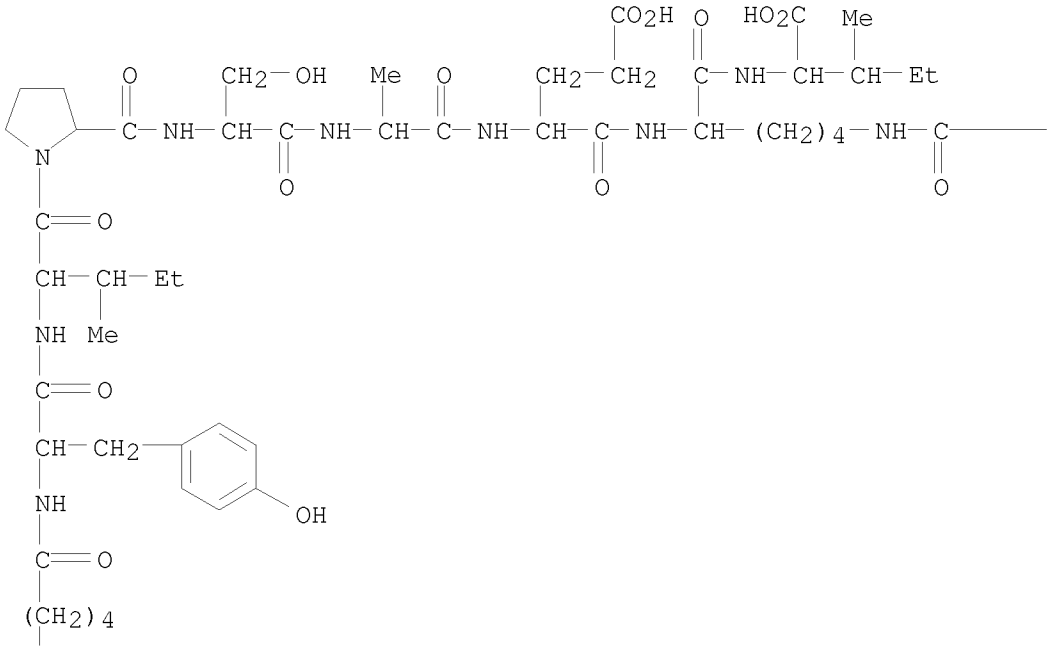
AB The invention involves the crosslinking of presented peptides to their corresponding MHC mol. or a soluble MHC derivative which has similar antigen binding properties, to form covalent complexes of the two mols. The resulting materials are useful in provoking an immune response, as well as in the identification of cytolytic T lymphocytes specific for the peptide of interest. The peptides are crosslinked to their partner mol. via a photoactivable material which is attached to the peptide. Upon exposure to light at an appropriate frequency, the peptide cross-links to the MHC mol. The photoactivatable group is e.g. iodo-4-azidosalicylic acid.

IT 147557-16-2 147794-89-6 149235-89-2
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(immunostimulation with peptides labeled with a photoactivatable group which binds to MHC mols.)

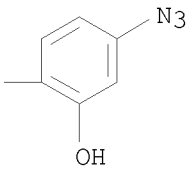
RN 147557-16-2 CAPLUS

CN L-Isoleucine, N-[N6-(4-azido-2-hydroxyiodobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

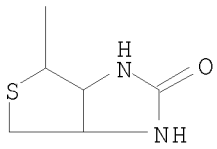
PAGE 1-A



PAGE 1-B



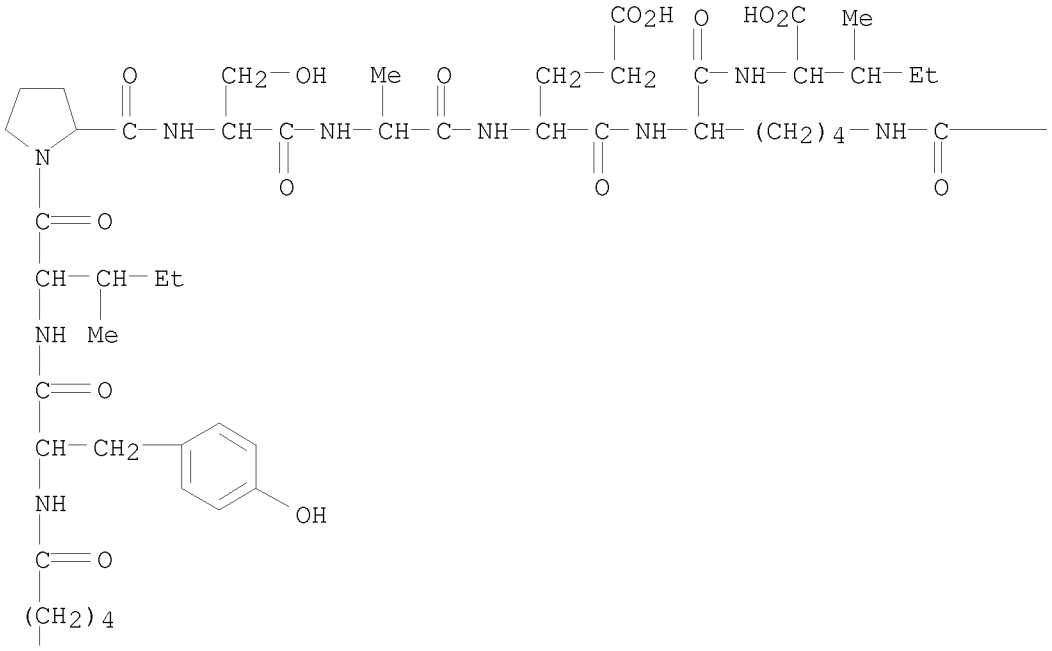
PAGE 2-A



D1— I

RN 147794-89-6 CAPLUS
CN L-Isoleucine, N-[N6-(4-azidobenzoyl)-N2-[N-[N-[N-[1-[N-[N-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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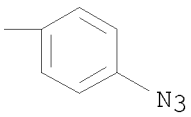
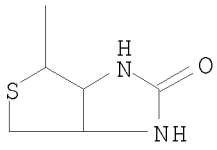
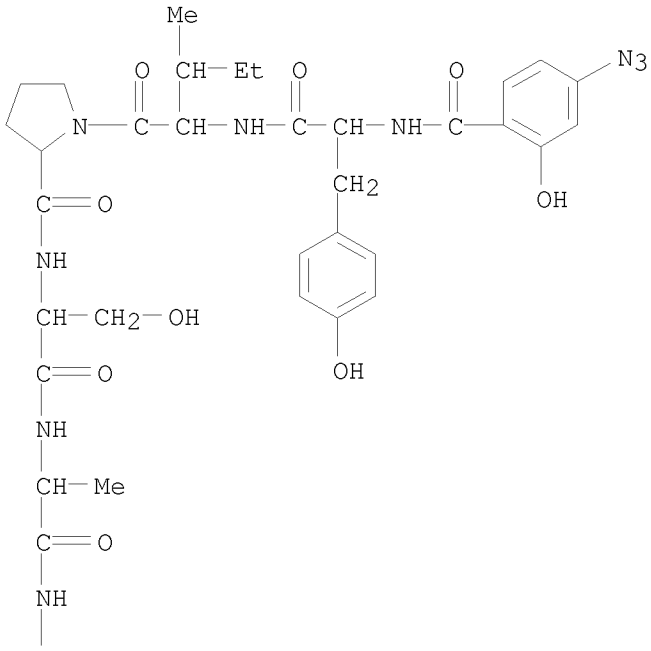


PAGE 2-A

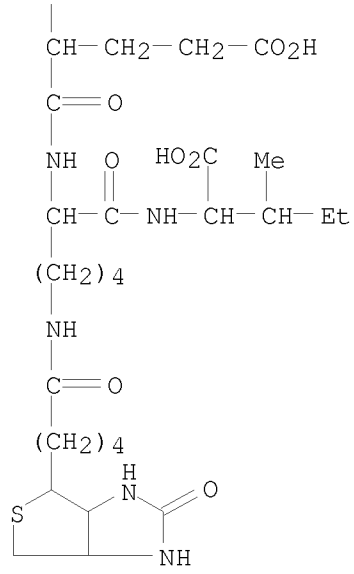


RN 149235-89-2 CAPLUS
CN L-Isoleucine, N-[N2-[N-[N-[N-[1-[N-[N-(4-azido-2-hydroxyiodobenzoyl)-L-tyrosyl]-L-isoleucyl]-L-prolyl]-L-seryl]-L-alanyl]-L-α-glutamyl]-N6-[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]-L-lysyl]-, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



PAGE 3-A

D1— I

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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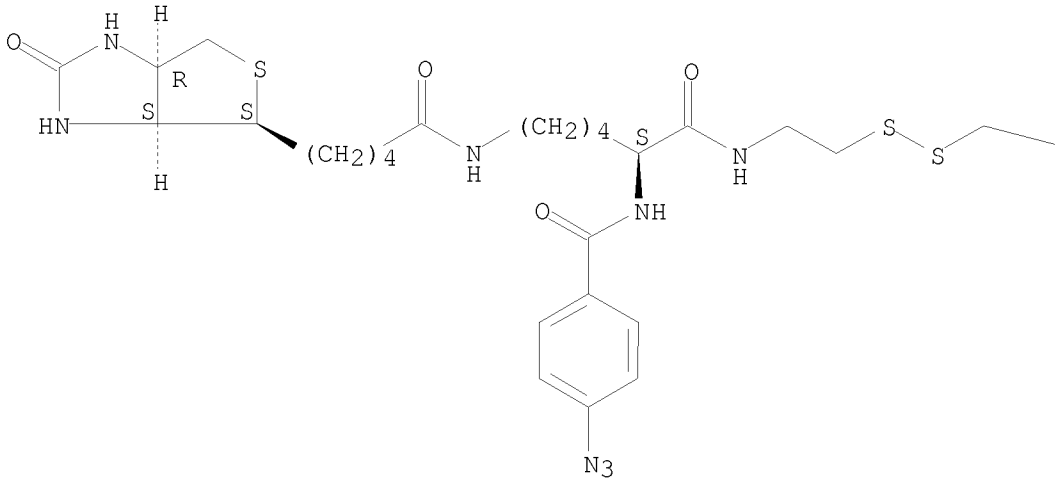
=> d ibib abs hitstr 3-12
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L8 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:407340 CAPLUS
DOCUMENT NUMBER: 141:119587
TITLE: Mass spectrometric detection of affinity purified crosslinked peptides
AUTHOR(S): Hurst, Gregory B.; Lankford, Trish K.; Kennel, Stephen J.
CORPORATE SOURCE: Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, 37831-6131, USA
SOURCE: Journal of the American Society for Mass Spectrometry (2004), 15(6), 832-839
CODEN: JAMSEF; ISSN: 1044-0305
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Chemical crosslinking of proteins combined with mass spectrometric anal. of the tryptic digest of the products shows considerable promise as a tool for interrogating structure and geometry of proteins and protein complexes. An impediment to the use of this tool has been the difficulty of distinguishing crosslinked peptide pairs from non-crosslinked peptides, and from the products of side reactions. We describe the use of a com. available biotinylated crosslinking reagent, sulfo-SBED, that allows affinity-based enrichment of crosslinked species. An intramol. crosslink is prepared using the peptide neurotensin as a model system. Matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectra show the predicted crosslinking product, as well as several side products. Finally, we describe the optimized enrichment of biotinylated species, and reduction of non-specific binding, for a batch-mode affinity separation based on immobilized monomeric avidin.
IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
(mass spectrometric detection of affinity purified crosslinked peptides)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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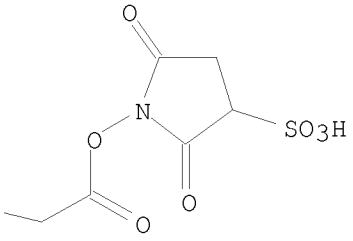


● Na

OS.CITING REF COUNT: 37 THERE ARE 37 CAPLUS RECORDS THAT CITE THIS RECORD (38 CITINGS)
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:53004 CAPLUS
DOCUMENT NUMBER: 140:90343
TITLE: Photoreactive glycoconjugate and labeled photoreactive glycoconjugate, and methods for trapping and measuring carbohydrate receptor
INVENTOR(S): Sugiura, Nobuo; Takagi, Hidekazu; Kimata, Koji
PATENT ASSIGNEE(S): Seikagaku Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 2004018841 A 20040122 JP 2002-180539 20020620 <--
JP 4340423 B2 20091007
PRIORITY APPLN. INFO.: JP 2002-180539 20020620

AB A photoreactive glycoconjugate and a labeled photoreactive glycoconjugate are provided, which are useful for studying the function and structure of a biopolymer such as a carbohydrate receptor capable of interacting with a carbohydrate. Also provided are a method for trapping a carbohydrate receptor with the photoreactive glycoconjugate, and a method for measuring a carbohydrate receptor with the labeled photoreactive glycoconjugate. The photoreactive glycoconjugate is displayed by the following formula, and the labeled photoreactive glycoconjugate is prepared by binding this photoreactive glycoconjugate with a labeling compound A-X-Y (A: lipid, X: glycoconjugate, Y: photoreactive compound residue, -: covalent bond).

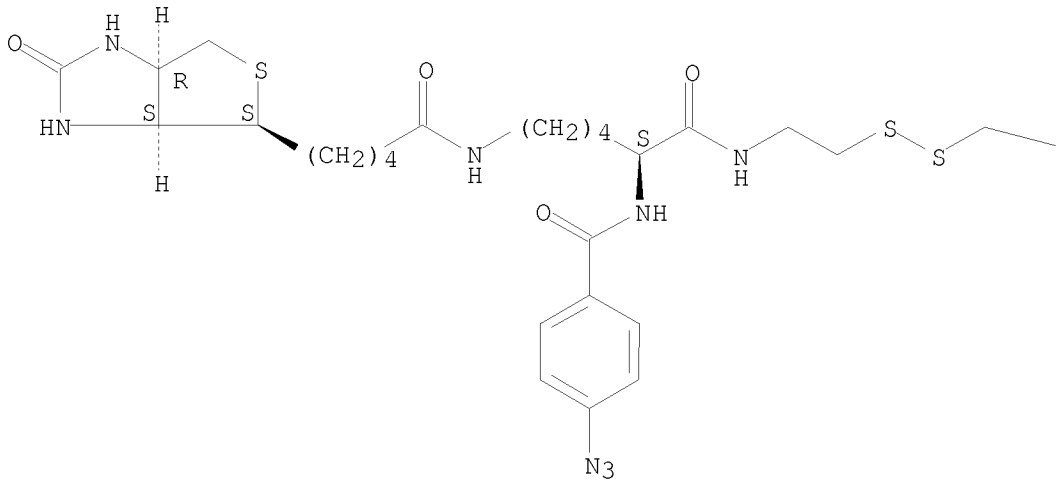
IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
((labeled) photoreactive glycoconjugate, and methods for trapping and measuring carbohydrate receptor)

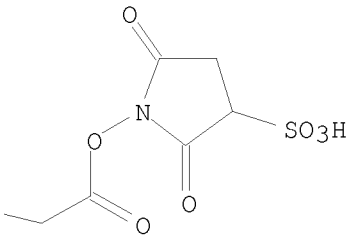
RN 179763-59-8 CAPLUS

CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





● Na

L8 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:640999 CAPLUS
DOCUMENT NUMBER: 138:39483
TITLE: Syntheses of novel photoaffinity probes for bioorganic studies on nyctinasty of leguminous plants
AUTHOR(S): Sugimoto, Takanori; Fujii, Tomohiko; Hatanaka, Yasumaru; Yamamura, Shosuke; Ueda, Minoru
CORPORATE SOURCE: Faculty of Science and Technology, Department of Chemistry, Laboratory of Natural Products, Keio University, Hiyoshi, Yokohama, 223-8522, Japan
SOURCE: Tetrahedron Letters (2002), 43(37), 6529-6532
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:39483

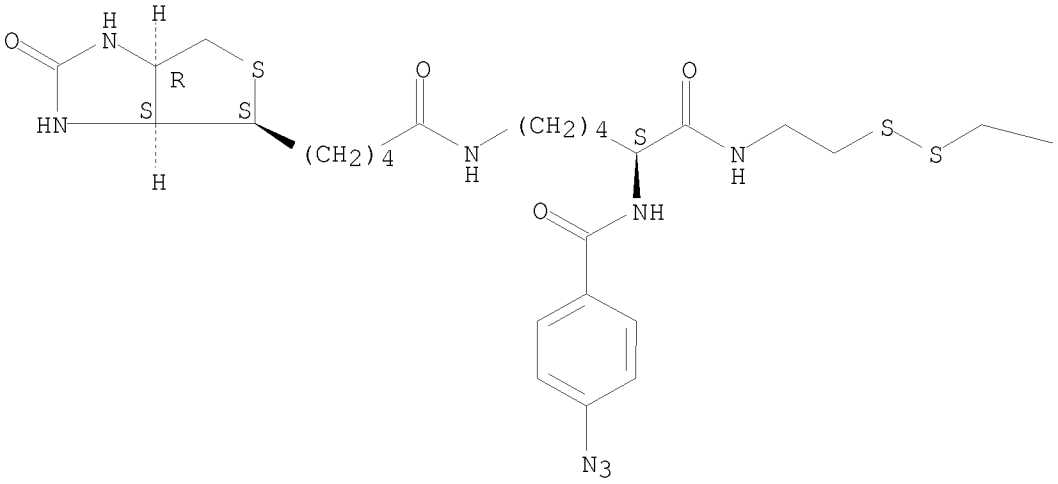
AB Two novel and non-radioactive photoaffinity probes for the bioorg. study of nyctinasty are designed and synthesized based on potassium isolespedezate, which induces leaf-opening against the leaf of Cassia mimosoides L. These probes bear a trifluoromethyldiazirine or diazophenyl group for photoaffinity and a biotin subunit for affinity chromatog. and chemiluminescent detection. The probes showed leaf-opening activity at 5+10-5 mol/L with leaves of C. mimosoides; thus, they would be an important tool for the identification of a receptor protein for potassium isolespedezate.

IT 478701-08-5P
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)

RN 478701-08-5 CAPLUS
CN 2-Propenoic acid, 2-[[6-[[3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-1-oxopropyl]amino]-6-deoxy-β-D-galactopyranosyl]oxy]-3-(4-hydroxyphenyl)-, monopotassium salt, (2Z)- (9CI) (CA INDEX NAME)

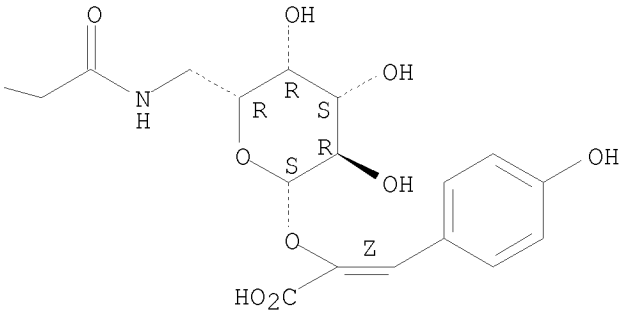
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

PAGE 1-A



● K

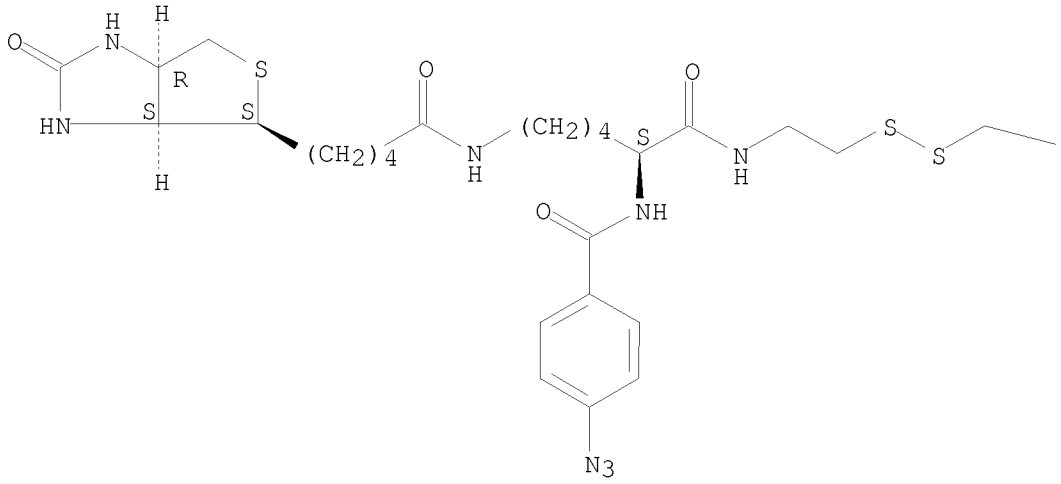
PAGE 1-B



IT 179763-59-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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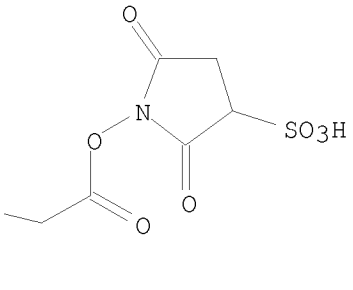


● Na

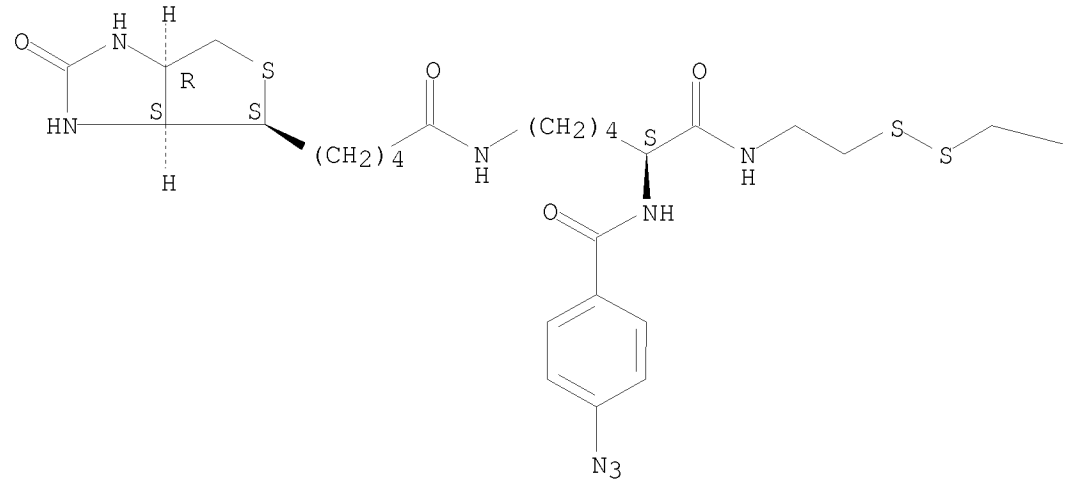
IT 478701-22-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)

RN 478701-22-3 CAPLUS

CN 2-Propenoic acid, 2-[[6-[[3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-1-oxopropyl]amino]-6-deoxy-β-D-galactopyranosyl]oxy]-3-(4-hydroxyphenyl)-, methyl ester, (2Z)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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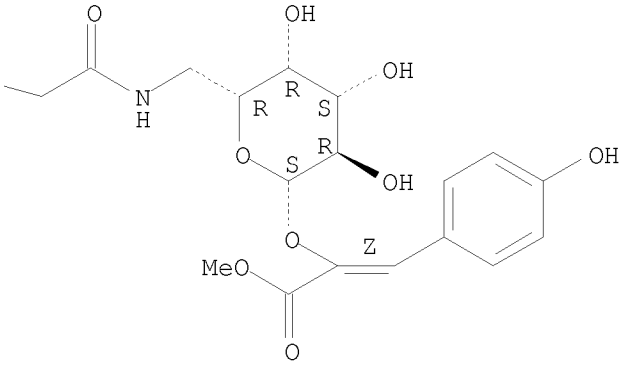

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:574920 CAPLUS
DOCUMENT NUMBER: 137:140337
TITLE: Preparation of hydroxyhexafluoropropylarenes as malonyl-CoA decarboxylase inhibitors.
INVENTOR(S): Arrhenius, Thomas; Chen, Mi; Cheng, Jie Fei; Haramura, Masayuki; Huang, Yujin; Nadzan, Alex; Tith, Sovouthy; Wallace, David; Zhang, Lin; Brown, Steve; Harmon, Charles
PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058690	A2	20020801	WO 2002-US1814	20020122 <--
WO 2002058690	A3	20030424		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002236830	A1	20020806	AU 2002-236830	20020122 <--
EP 1353662	A2	20031022	EP 2002-703196	20020122 <--
EP 1353662	B1	20070418		
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JP 2004521113	T	20040715	JP 2002-559024	20020122 <--
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AT 359773	T	20070515	AT 2002-703196	20020122
ES 2284817	T3	20071116	ES 2002-703196	20020122
CN 101596191	A	20091209	CN 2009-10139558	20020126
US 20040087627	A1	20040506	US 2003-466856	20030721 <--
US 7385063	B2	20080610		
JP 2008007510	A	20080117	JP 2007-185377	20070717
JP 2008001719	A	20080110	JP 2007-227557	20070903
JP 2008100998	A	20080501	JP 2007-267407	20071015
JP 2010065054	A	20100325	JP 2009-261692	20091117
JP 2010077150	A	20100408	JP 2009-270935	20091130
PRIORITY APPLN. INFO.:			US 2001-264552P P	20010126
			US 2001-265380P P	20010126
			JP 2002-559024 A3	20020122
			JP 2002-563930 A3	20020122
			WO 2002-US1814 W	20020122
			CN 2002-803537 A3	20020126
			JP 2002-559032 A3	20020126

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

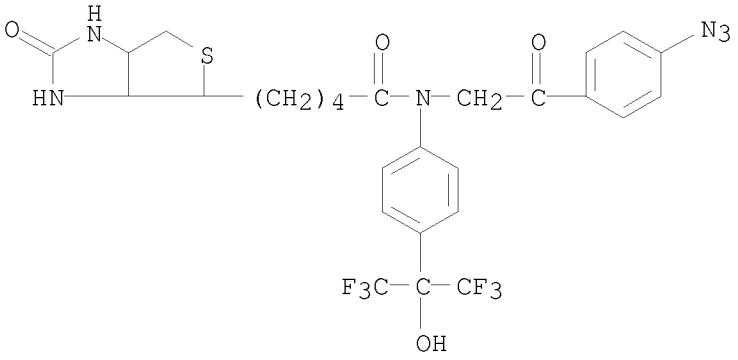
OTHER SOURCE(S): CASREACT 137:140337; MARPAT 137:140337

AB A method for the inhibition of malonyl-CoA decarboxylase (MCD) comprises administration of W[C(OH)(CF3)2] [W = (substituted) Ph, pyridinyl, pyrazolyl, furyl, thienyl, pyrrolyl]. Thus, 4-(EtNH)C6H4[C(OH)(CF3)2], poly(4-vinylpyridine), and isobutyryl chloride were stirred 14 h in CH2Cl2 to give 41% 4-[Me2CHCO(Et)N]C6H4[C(OH)(CF3)2]. Tested title compds. inhibited MCD with IC50 = 0.007-0.557 μM.

IT 444620-98-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of hydroxyhexafluoropropylarenes as malonyl-CoA decarboxylase inhibitors)

RN 444620-98-8 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-(4-azidophenyl)-2-oxoethyl]hexahydro-2-oxo-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:105070 CAPLUS
DOCUMENT NUMBER: 134:157723
TITLE: Synthesis and characterization of insulin-like growth factor (IGF)-1 photoprobes selective for the IGF-binding proteins (IGFBPs) photoaffinity labeling of the IGF-binding domain on IGFBP-2
AUTHOR(S): Horney, Mark J.; Evangelista, Caroline A.; Rosenzweig, Steven A.
CORPORATE SOURCE: Department of Cell and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, Charleston, SC, 29425, USA
SOURCE: Journal of Biological Chemistry (2001), 276(4), 2880-2889
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Elevated insulin-like growth factor (IGF)-1 levels are prognostic for the development of prostate and breast cancers and exacerbate the complications of diabetes. In each case, perturbation of the balance between IGF-1/2, the IGF-1 receptor, and the IGF-binding proteins (IGF-BPs) leads to elevated IGF-1 sensitivity. Blockade of IGF action in these diseases would be clin. significant. Unfortunately, effective IGF antagonists are currently unavailable. The IGFBPs exhibit high affinity and specificity for the IGFs and serve as natural IGF antagonists, limiting their mitogenic/anti-apoptotic effects. As an initial step in designing IGFBP-based agents that antagonize IGF action, we have begun to analyze the structure of the IGF-binding site on IGFBP-2. To this end, two IGF-1 photoprobes, NαGly1-(4-azidobenzoyl)-IGF-1 (abG1IGF-1) and NαGly1-([2-6-(biotinamido)-2(p-azidobenzamido)hexanoamido]ethyl-1,3'-dithiopropionoyl)-IGF-1 (bedG1IGF-1), selective for the IGFBPs were synthesized by derivatization of the α-amino group of Gly1, known to be part of the IGFBP-binding domain. Mass spectrometric anal. of the reduced, alkylated, and trypsin-digested abG1IGF-1·recombinant human IGFBP-2 (rhIGFBP-2) complex indicated photoincorporation near the carboxyl terminus of rhIGFBP-2, between residues 266 and 287. Mass spectrometric anal. of avidin-purified tryptic peptides of the bedG1IGF-1·rhIGFBP-2 complex revealed photoincorporation within residues 212-227. Taken together, these data indicate that the

IGFBP-binding domain on IGF-1 contacts the distal third of IGFBP-2, providing evidence that the IGF-1-binding domain is located within the C terminus of IGFBP-2.

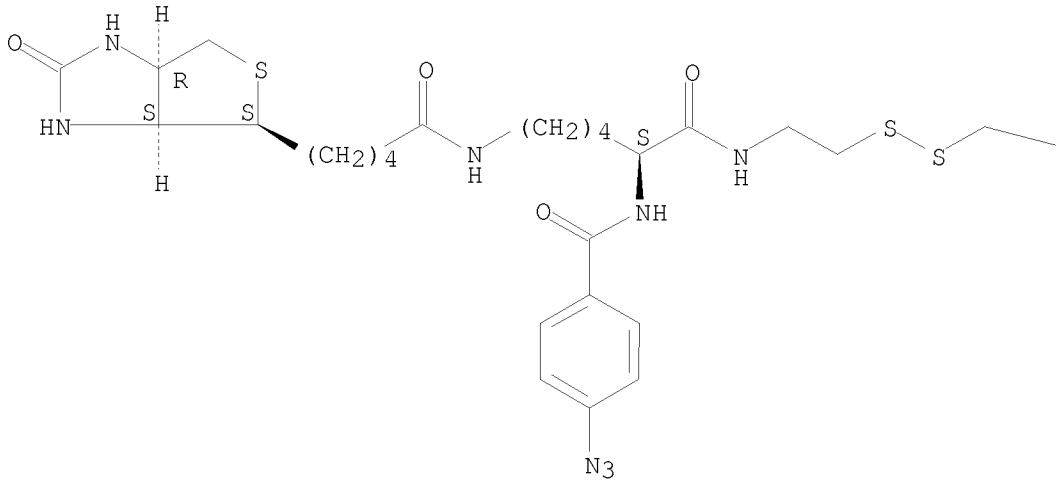
IT 179763-59-8DP, Sulfo-SBED, reaction products with IGF-1
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(synthesis and characterization of insulin-like growth factor (IGF)-1 photoprobes selective for IGF-binding proteins (IGFBPs) photoaffinity labeling of IGF-binding domain on IGFBP-2)

RN 179763-59-8 CAPLUS

CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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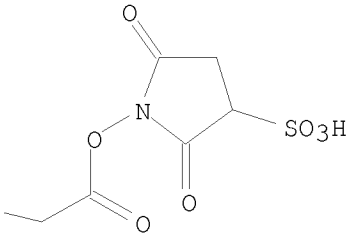


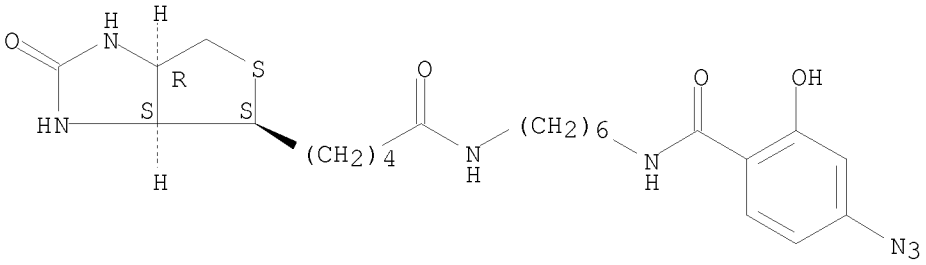
● Na

OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:635337 CAPLUS
DOCUMENT NUMBER: 133:247746
TITLE: Oligonucleotide immobilization on micropatterned streptavidin surfaces
AUTHOR(S): Sabanayagam, Chandran R.; Smith, Cassandra L.; Cantor, Charles R.
CORPORATE SOURCE: Center for Advanced Biotechnology, Boston University, Boston, MA, 02215, USA
SOURCE: Nucleic Acids Research (2000), 28(8), e33, ii-iv
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The authors describe a simple procedure for photolithog. patterning of streptavidin on silicon substrates. Long wavelength UV (365 nm) light was used to direct the covalent attachment of photoactivatable biotin onto silylated silicon wafers. Fluorescently labeled streptavidin was found to bind only in areas exposed to the light. The authors used this procedure to selectively pattern streptavidin inside microwells etched in silicon, and the authors investigated the binding characteristics of biotinylated oligonucleotides of lengths, 54 and 99 bases. The binding curves were found to fit the functional form of the Langmuir isotherm, with binding saturation proportional to n-3/4.
IT 288860-12-8
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)
(oligonucleotide immobilization on micropatterned streptavidin surfaces)
RN 288860-12-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[(4-azido-2-hydroxybenzoyl)amino]hexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:382163 CAPLUS
DOCUMENT NUMBER: 133:173857
TITLE: Mapping Protein-Protein Interactions in the Bacteriophage T4 DNA Polymerase Holoenzyme Using a Novel Trifunctional Photo-cross-linking and Affinity Reagent
AUTHOR(S): Alley, Stephen C.; Ishmael, Faoud T.; Jones, A. Daniel; Benkovic, Stephen J.

CORPORATE SOURCE: Department of Chemistry and Department of Biochemistry and Molecular Biology Hershey Medical Center, Pennsylvania State University, University Park, PA, 16802, USA
SOURCE: Journal of the American Chemical Society (2000), 122(25), 6126-6127
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:173857

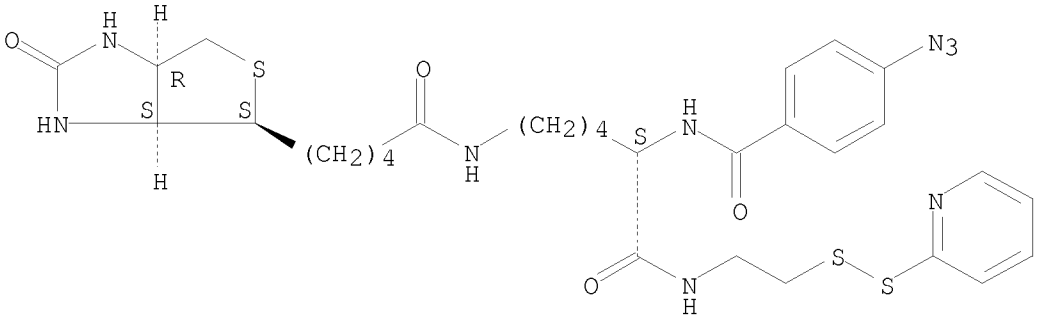
AB In bacteriophage T4, the DNA polymerase holoenzyme forms the core of the DNA replication system, consisting of the DNA polymerase (gp43), a trimeric, circular processivity factor called the sliding clamp (gp45), and the clamp loader (a 4:1 complex of gp44 and gp62) that hydrolyzes ATP to assemble the holoenzyme. A novel trifunctional photo-crosslinking and affinity agent was synthesized; the three functional groups are (1) a thiol-reactive 2-thiopyridine mixed disulfide for conjugation to a bait protein, (2) a photoactivatable aryl azide for photo-crosslinking to a target protein (the target protein may the be same protein as the bait, resulting in intra- or intersubunit photo-crosslinks), and (3) the affinity probe biotin, which can be used for purification and visualization of photo-crosslinked proteins. The utility of the photo-crosslinking agent was demonstrated with the gp45 mutant I107C, which contains a single cysteine per monomer. The interaction of I107C with gp44/gp62 was investigated using a procedure similar to a Western blot.

IT 288611-68-7P
RL: NUU (Other use, unclassified); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of a novel trifunctional photo-crosslinking and affinity reagent for mapping protein-protein interactions in the bacteriophage T4 DNA polymerase holoenzyme)

RN 288611-68-7 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[(5S)-5-[(4-azidobenzoyl)amino]-6-oxo-6-[[2-(2-pyridinyldithio)ethyl]amino]hexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of a novel trifunctional photo-crosslinking and affinity reagent for mapping protein-protein interactions in the bacteriophage T4 DNA polymerase holoenzyme)

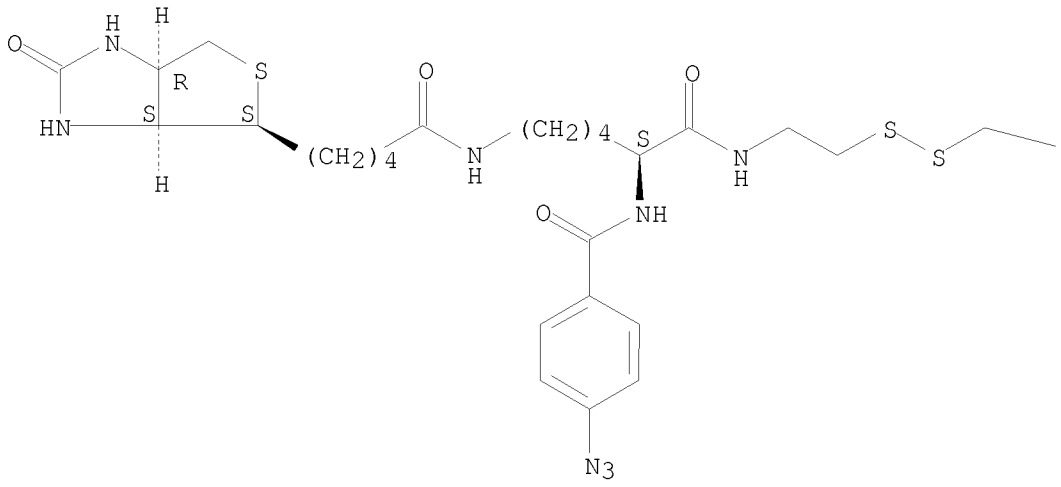
RN 179763-59-8 CAPLUS

CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester,

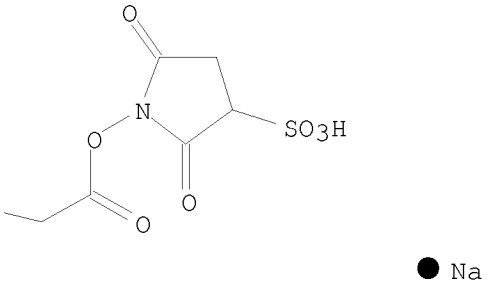
sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



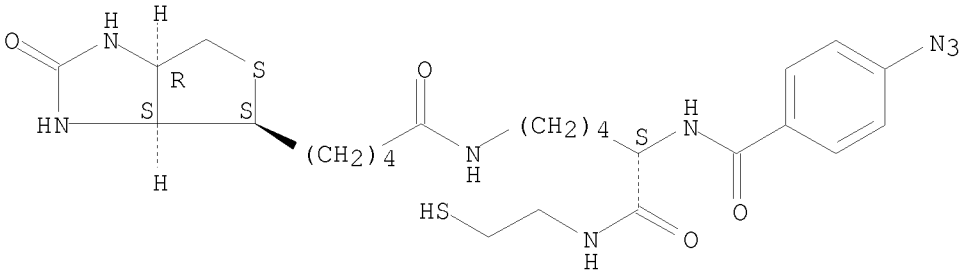
PAGE 1-B



● Na

IT 288611-67-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of a novel trifunctional photo-crosslinking and affinity reagent for mapping protein-protein interactions in the bacteriophage T4 DNA polymerase holoenzyme)
RN 288611-67-6 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[(5S)-5-[(4-azidobenzoyl)amino]-6-[(2-mercaptoethyl)amino]-6-oxohexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 47 THERE ARE 47 CAPLUS RECORDS THAT CITE THIS RECORD (47 CITINGS)
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:357818 CAPLUS
DOCUMENT NUMBER: 133:190005
TITLE: Segregation of Micrometer-Dimension Biosensor Elements on a Variety of Substrate Surfaces
AUTHOR(S): Brooks, Sunday A.; Dontha, Narasaiah; Davis, C. Brandon; Stuart, Joan K.; O'Neill, Geoff; Kuhr, Werner G.
CORPORATE SOURCE: Department of Chemistry, University of California, Riverside, CA, 92521, USA
SOURCE: Analytical Chemistry (2000), 72(14), 3253-3259
CODEN: ANCHAM; ISSN: 0003-2700
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

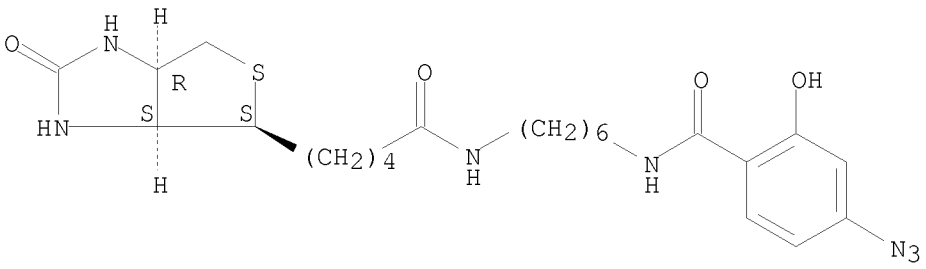
AB With the rapid development of micro total anal. systems and sensitive biosensing technologies, it is often desirable to immobilize biomols. to small areas of surfaces other than silicon. To this end, photolithog. techniques were used to derivatize micrometer-sized, spatially segregated biosensing elements on several different substrate surfaces. Both an interference pattern and a dynamic confocal patterning apparatus were used to control the dimensions and positions of immobilized regions. In both of these methods, a UV laser was used to initiate attachment of a photoactive biotin mol. to the substrate surfaces. Once biotin was attached to a substrate, biotin/avidin/biotin chemical was used to attach fluorescently labeled or nonlabeled avidin and biotinylated sensing elements such as biotinylated antibodies. Dimensions of 2-10 μm were achievable with these methods. A wide variety of materials, including glassy carbon, quartz, acrylic, polystyrene, acetonitrile-butadiene-styrene, polycarbonate, and poly(dimethylsiloxane), were used as substrates. Nitrene- and carbene-generating photolinkers were investigated to achieve the most homogeneous films. These techniques were applied to create a prototype microfluidic sensor device that was used to sep. fluorescently labeled secondary antibodies.

IT 288860-12-8
RL: ARU (Analytical role, unclassified); DEV (Device component use); RCT (Reactant); ANST (Analytical study); RACT (Reactant or reagent); USES (Uses)
(segregation of micrometer-dimension biosensor elements on a variety of substrate surfaces)

RN 288860-12-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[(4-azido-2-hydroxybenzoyl)amino]hexyl]hexahydro-2-oxo-,

(3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



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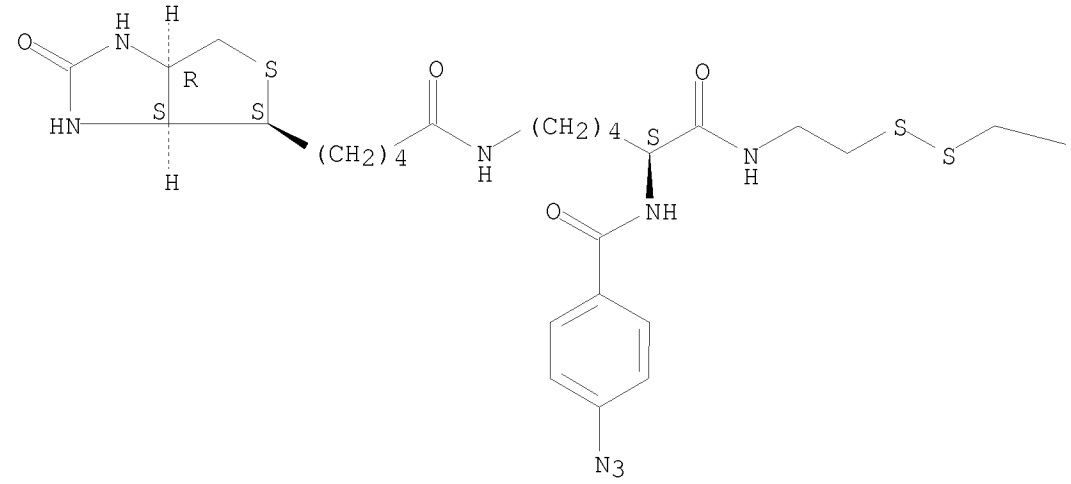
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:155858 CAPLUS
DOCUMENT NUMBER: 133:14241
TITLE: Use of an affinity proteomics approach for the identification of low-abundant bacterial adhesins as applied on the Lewisb-binding adhesin of Helicobacter pylori
AUTHOR(S): Larsson, T.; Bergstrom, J.; Nilsson, C.; Karlsson, K.-A.
CORPORATE SOURCE: Institute of Medical Biochemistry, Goteborg University, Goteborg, SE-405 30, Swed.
SOURCE: FEBS Letters (2000), 469(2,3), 155-158
CODEN: FEBLAL; ISSN: 0014-5793
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Microbial attachment to host cell surfaces is considered to be the first essential step for colonization and infection. In most known cases, attachment is mediated by a specific protein-carbohydrate interaction. We have used a carbohydrate-containing crosslinking probe to select bacterial surface adhesins for trypsin digestion, MALDI-TOF mass spectrometry and identification against genome sequence. The present paper describes this functional proteomics approach for identification of the recently cloned low-abundant Lewisb-binding adhesin of Helicobacter pylori. Protein identification was obtained through the enrichment of approx. 300 fmol of adhesin from solubilized cells.
IT 179763-59-8, Sulfo-SBED
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(use of affinity proteomics approach for identification of low-abundant bacterial adhesins as applied on Lewisb-binding adhesin of Helicobacter pylori)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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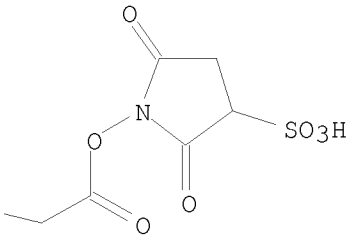

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L8 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:569927 CAPLUS
DOCUMENT NUMBER: 131:334755
TITLE: Synthesis and biological activity of a photoaffinity-biotinylated pheromone-biosynthesis activating neuropeptide (PBAN) analog
AUTHOR(S): Rafaeli, Ada; Gileadi, Carina
CORPORATE SOURCE: Department of Stored Products, Pheromone Research Laboratory, Volcani Center, Bet Dagan, 50250, Israel
SOURCE: Peptides (New York) (1999), 20(7), 787-794
CODEN: PPTDD5; ISSN: 0196-9781
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB To study the mode of action of pheromone-biosynthesis activating neuropeptide (PBAN) at the receptor level and for receptor purification, we synthesized and tested the biol. properties of a photoaffinity

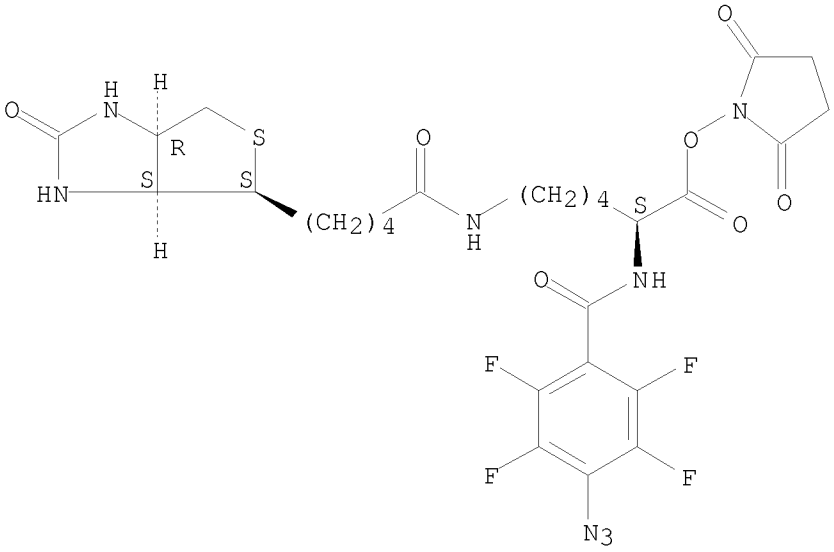
biotinylated PBAN analog N-[N-(4-azido-tetrafluorobenzoyl)-biocytinyloxyl]-succinimide (Atf-Bct-NHS-PBAN). The Atf-Bct-NHS-PBAN was separated from unreacted reagent and synthetic Hez-PBAN by high-performance liquid chromatog. Conjugated biotin was detected by using enzyme-linked assay as well as tricine SDS-PAGE. The biol. activity of purified Atf-Bct-NHS-PBAN was confirmed using both in vivo and in vitro pheromonotropic bioassays. These observations indicate that Atf-Bct-NHS-PBAN is a full agonist of PBAN action in pheromone glands and may be used to study PBAN receptors by employing avidin coupled to various reporter groups.

IT 249749-25-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and biol. activity of a photoaffinity-biotinylated pheromone-biosynthesis activating neuropeptide analog)

RN 249749-25-5 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[(5S)-5-[(4-azido-2,3,5,6-tetrafluorobenzoyl)amino]-6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L8 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN

PI WO 2002058690 A2 20020801

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002058690	A2	20020801	WO 2002-US1814	20020122 <--
WO 2002058690	A3	20030424		

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(preparation of hydroxyhexafluoropropylarenes as malonyl-CoA decarboxylase
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FILE COVERS 1907 - 4 Oct 2010 VOL 153 ISS 15
FILE LAST UPDATED: 3 Oct 2010 (20101003/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:574920 CAPLUS
DOCUMENT NUMBER: 137:140337
TITLE: Preparation of hydroxyhexafluoropropylarenes as
                         malonyl-CoA decarboxylase inhibitors.
INVENTOR(S):   Arrhenius, Thomas; Chen, Mi; Cheng, Jie Fei; Haramura,
                         Masayuki; Huang, Yujin; Nadzan, Alex; Tith, Sovouthy;

Wallace, David; Zhang, Lin; Brown, Steve; Harmon, Charles

PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002058690	A3	20030424		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002236830	A1	20020806	AU 2002-236830	20020122
EP 1353662	A2	20031022	EP 2002-703196	20020122
EP 1353662	B1	20070418		
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ES 2284817	T3	20071116	ES 2002-703196	20020122
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US 2001-264552P	P	20010126
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WO 2002-US1814	W	20020122
CN 2002-803537	A3	20020126
JP 2002-559032	A3	20020126

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 137:140337; MARPAT 137:140337

AB A method for the inhibition of malonyl-CoA decarboxylase (MCD) comprises administration of W[C(OH)(CF3)2] [W = (substituted) Ph, pyridinyl, pyrazolyl, furyl, thienyl, pyrrolyl]. Thus, 4-(EtNH)C6H4[C(OH)(CF3)2], poly(4-vinylpyridine), and isobutyryl chloride were stirred 14 h in CH2Cl2 to give 41% 4-[Me2CHCO(Et)N]C6H4[C(OH)(CF3)2]. Tested title compds. inhibited MCD with IC50 = 0.007-0.557 μM.

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L8   ANSWER 1 OF 33  CAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:        2004:772456  CAPLUS
DOCUMENT NUMBER:         142:389159
TITLE:                   Synthetic probe compounds for the bioorganic studies
                         of nyctinastic leaf-movement in leguminous plants
AUTHOR(S):               Sugimoto, Takanori; Fujii, Tomohiko; Yamamura,
                         Shosuke; Ueda, Minoru
CORPORATE SOURCE:        Laboratory of Natural Products, Department of
                         Chemistry, Faculty of Science and Technology, Keio
                         University, Hiyoshi, Yokohama, 223-8522, Japan
SOURCE:                  Trends in Heterocyclic Chemistry (2003), 9,
                         101-107
                         CODEN: TIHCE6
PUBLISHER:               Research Trends
DOCUMENT TYPE:           Journal
LANGUAGE:                English
OTHER SOURCE(S):         CASREACT 142:389159
AB   Most leguminous plants close their leaves in the evening, and open them
     early in the morning according to the circadian rhythm controlled by a
     biol. clock.  These movements involve two bioactive substances,
     leaf-opening and closing substance.  To investigate the mechanism of
     nyctinasty on mol. level, we synthesized two bioactive probes: one is a
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fluorescence labeled probe for identifying the target cell of leaf-movement substance; the other is a photoaffinity probe for identification of the receptor protein for bioactive substances. Then we carried out bioorg. studies of nyctinasty using these probes.

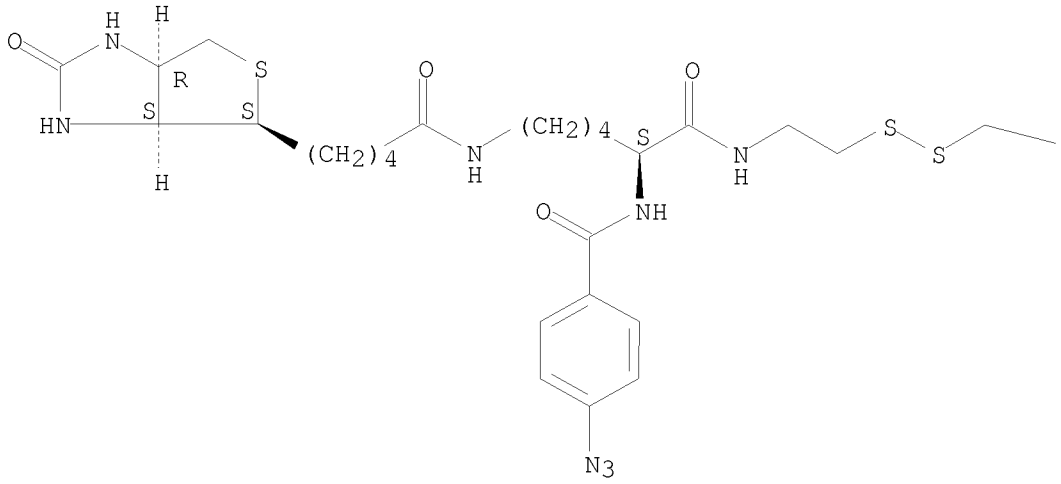
IT 478701-22-3P
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(photoaffinity probe preparation; preparation synthetic probe compds. for the
bioorg. studies of nyctinastic leaf-movement in leguminous plants)

RN 478701-22-3 CAPLUS

CN 2-Propenoic acid, 2-[[6-[[3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-1-oxopropyl]amino]-6-deoxy-β-D-galactopyranosyl]oxy]-3-(4-hydroxyphenyl)-, methyl ester, (2Z)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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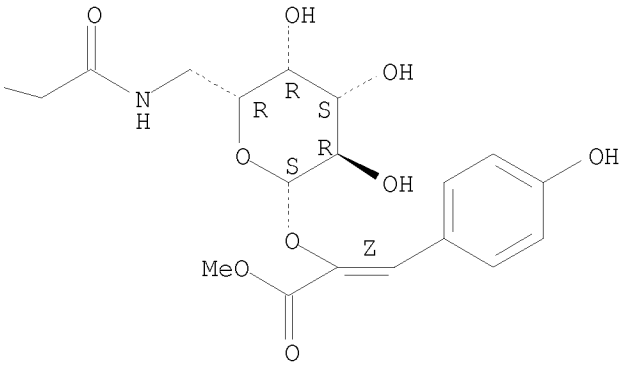
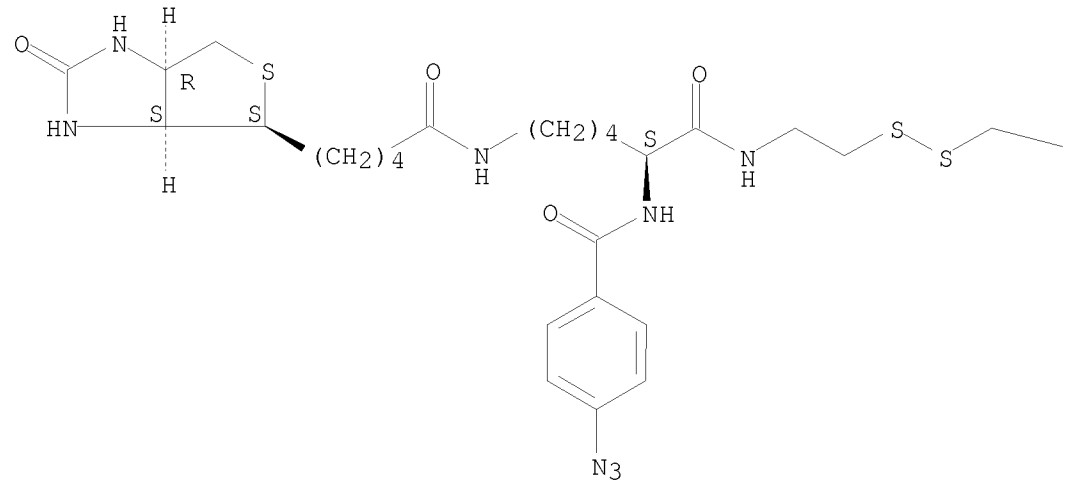


IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
(photoaffinity probe preparation; preparation synthetic probe compds. for the
bioorg. studies of nyctinastic leaf-movement in leguminous plants)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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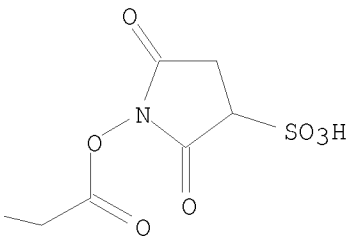

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L8 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:640675 CAPLUS
DOCUMENT NUMBER: 141:327885
TITLE: Targeted Protein Functionalization Using His-Tags
AUTHOR(S): Meredith, Gavin D.; Wu, Hayley Y.; Allbritton, Nancy L.

CORPORATE SOURCE: Department of Physiology Biophysics, University of California - Irvine, Irvine, CA, 92697-4560, USA
SOURCE: Bioconjugate Chemistry (2004), 15(5), 969-982
CODEN: BCCHES; ISSN: 1043-1802
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:327885

AB With the impressive growth in gene sequence data that has become available, recombinant proteins represent an increasingly vast source of mol. components, with unique functional and structural properties, for use in biotechnol. applications and devices. To facilitate the use, manipulation, and integration of such mols. into devices, a controllable method for their chemical modification was developed. In this approach, a trifunctional labeling reagent first recognizes and binds a His-tag on the target protein's surface. After binding, a photoreactive group on the trifunctional mol. is triggered to create a covalent linkage between the reagent and the target protein. The third moiety on the labeling reagent can be varied to bring unique chemical functionality to the target protein. This approach provides: (1) specificity in that only His-tagged targets are modified, (2) regio-specific control in that the target is modified proximal to the His-tag, the position of which can be varied, and (3) stoichiometric control in that the number modifications is limited by the binding capacity of the His-tag. Two such labeling reagents were designed, synthesized, and used to modify both N- and C-terminally His-tagged versions of the enzyme murine dihydrofolate reductase (mDHFR). The first reagent biotinylated the enzyme,while the second served to attach an oligonucleotide to yield a protein-DNA conjugate. In all cases, modification in this manner brings new functionality to the protein while leaving the enzymic activity intact. The protein-DNA conjugate was used to specifically immobilize the active enzyme through DNA hybridization onto polystyrene microspheres, a step toward creating a functional protein microarray.

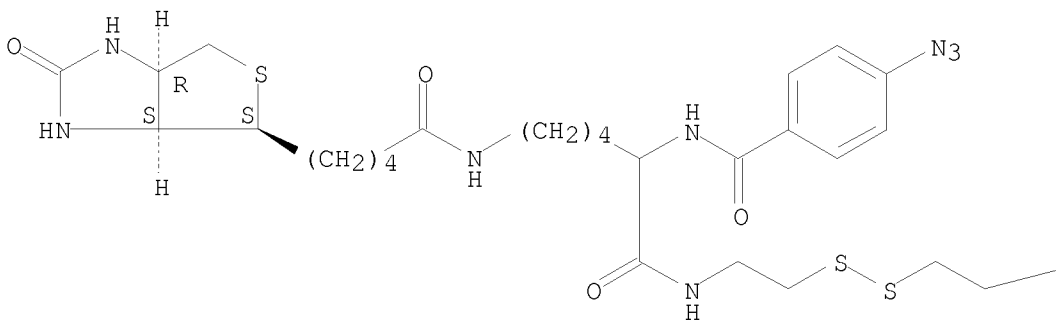
IT 769939-91-5P
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(targeted protein functionalization using His-tags with DNA conjugate)

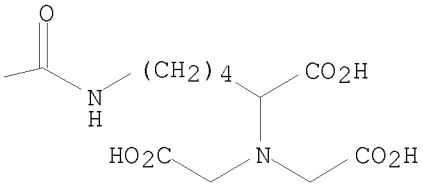
RN 769939-91-5 CAPLUS

CN 13,14-Dithia-3,9,17,24-tetraazanonacosanoic acid, 19-[(4-azidobenzoyl)amino]-4-carboxy-3-(carboxymethyl)-29-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-10,18,25-trioxo- (CA INDEX NAME)

Absolute stereochemistry.

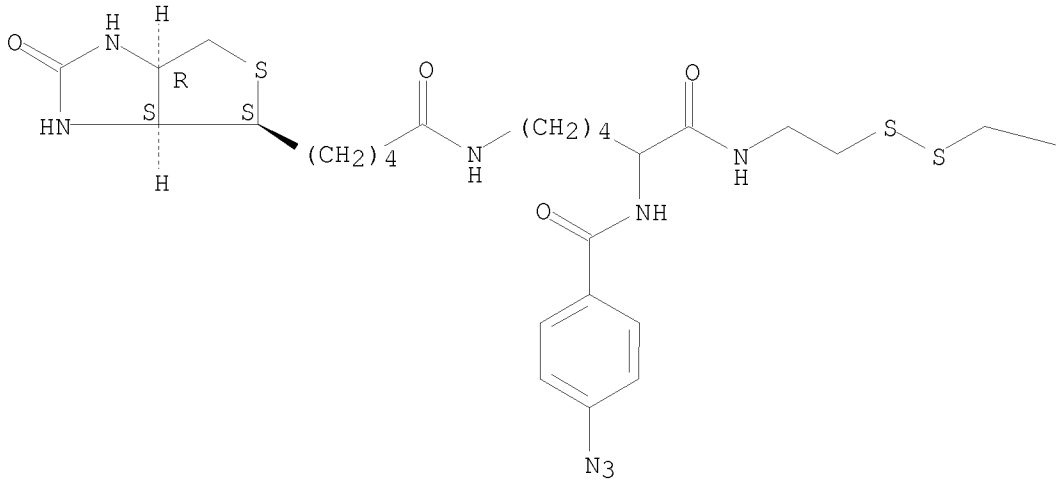
PAGE 1-A

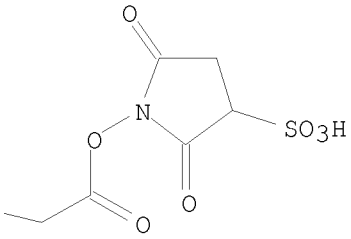




IT 769939-90-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(targeted protein functionalization using His-tags with DNA conjugate)
RN 769939-90-4 CAPLUS
CN Propanoic acid, 3-[[2-[[2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester (CA INDEX NAME)

Absolute stereochemistry.





OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
REFERENCE COUNT: 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

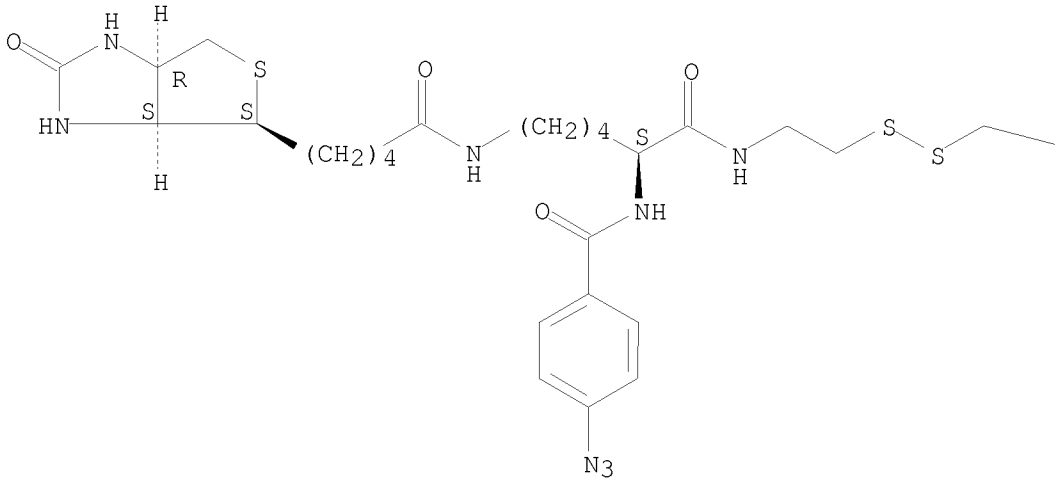
L8 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:407340 CAPLUS
DOCUMENT NUMBER: 141:119587
TITLE: Mass spectrometric detection of affinity purified crosslinked peptides
AUTHOR(S): Hurst, Gregory B.; Lankford, Trish K.; Kennel, Stephen J.
CORPORATE SOURCE: Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, 37831-6131, USA
SOURCE: Journal of the American Society for Mass Spectrometry (2004), 15(6), 832-839
CODEN: JAMSEF; ISSN: 1044-0305
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Chemical crosslinking of proteins combined with mass spectrometric anal. of the tryptic digest of the products shows considerable promise as a tool for interrogating structure and geometry of proteins and protein complexes. An impediment to the use of this tool has been the difficulty of distinguishing crosslinked peptide pairs from non-crosslinked peptides, and from the products of side reactions. We describe the use of a com. available biotinylated crosslinking reagent, sulfo-SBED, that allows affinity-based enrichment of crosslinked species. An intramol. crosslink is prepared using the peptide neurotensin as a model system. Matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectra show the predicted crosslinking product, as well as several side products. Finally, we describe the optimized enrichment of biotinylated species, and reduction of non-specific binding, for a batch-mode affinity separation based on immobilized monomeric avidin.

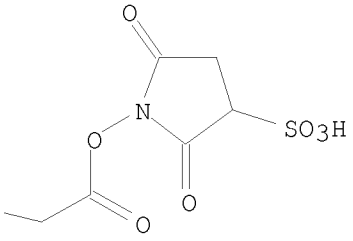
IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
(mass spectrometric detection of affinity purified crosslinked peptides)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



● Na

OS.CITING REF COUNT: 37 THERE ARE 37 CAPLUS RECORDS THAT CITE THIS RECORD (38 CITINGS)
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:53004 CAPLUS
DOCUMENT NUMBER: 140:90343
TITLE: Photoreactive glycoconjugate and labeled photoreactive glycoconjugate, and methods for trapping and measuring carbohydrate receptor
INVENTOR(S): Sugiura, Nobuo; Takagi, Hidekazu; Kimata, Koji
PATENT ASSIGNEE(S): Seikagaku Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 2004018841 A 20040122 JP 2002-180539 20020620 <--
JP 4340423 B2 20091007
PRIORITY APPLN. INFO.: JP 2002-180539 20020620

AB A photoreactive glycoconjugate and a labeled photoreactive glycoconjugate are provided, which are useful for studying the function and structure of a biopolymer such as a carbohydrate receptor capable of interacting with a carbohydrate. Also provided are a method for trapping a carbohydrate receptor with the photoreactive glycoconjugate, and a method for measuring a carbohydrate receptor with the labeled photoreactive glycoconjugate. The photoreactive glycoconjugate is displayed by the following formula, and the labeled photoreactive glycoconjugate is prepared by binding this photoreactive glycoconjugate with a labeling compound A-X-Y (A: lipid, X: glycoconjugate, Y: photoreactive compound residue, -: covalent bond).

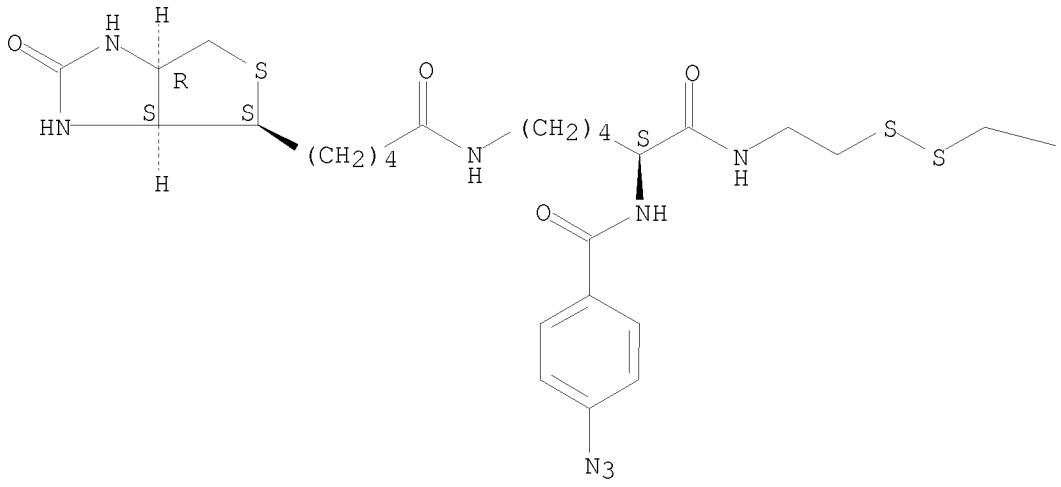
IT 179763-59-8, Sulfo-SBED
RL: RCT (Reactant); RACT (Reactant or reagent)
((labeled) photoreactive glycoconjugate, and methods for trapping and measuring carbohydrate receptor)

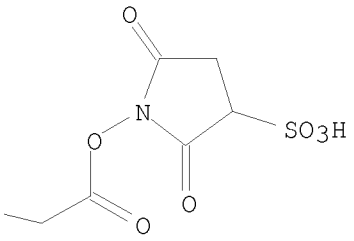
RN 179763-59-8 CAPLUS

CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





● Na

L8 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:640999 CAPLUS
DOCUMENT NUMBER: 138:39483
TITLE: Syntheses of novel photoaffinity probes for bioorganic studies on nyctinasty of leguminous plants
AUTHOR(S): Sugimoto, Takanori; Fujii, Tomohiko; Hatanaka, Yasumaru; Yamamura, Shosuke; Ueda, Minoru
CORPORATE SOURCE: Faculty of Science and Technology, Department of Chemistry, Laboratory of Natural Products, Keio University, Hiyoshi, Yokohama, 223-8522, Japan
SOURCE: Tetrahedron Letters (2002), 43(37), 6529-6532
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:39483

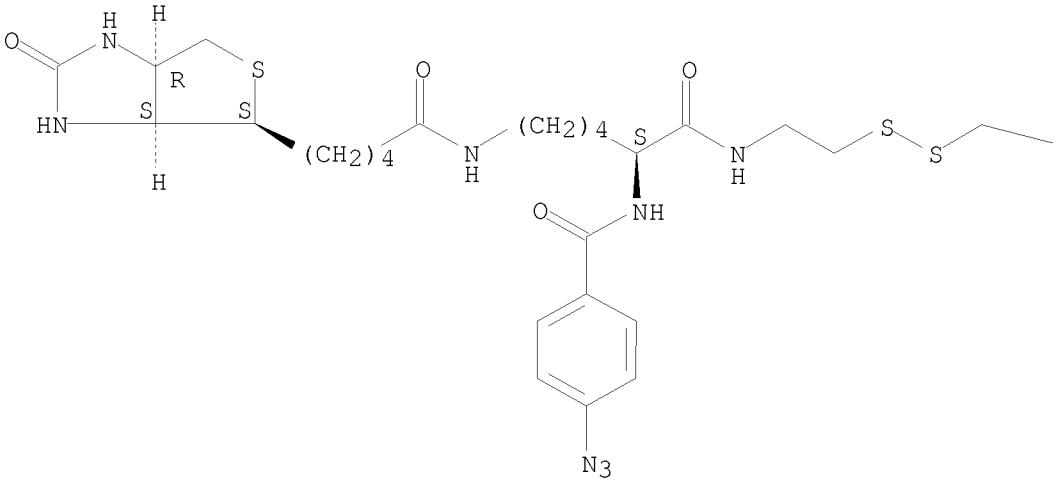
AB Two novel and non-radioactive photoaffinity probes for the bioorg. study of nyctinasty are designed and synthesized based on potassium isolespedezate, which induces leaf-opening against the leaf of Cassia mimosoides L. These probes bear a trifluoromethyldiazirine or diazophenyl group for photoaffinity and a biotin subunit for affinity chromatog. and chemiluminescent detection. The probes showed leaf-opening activity at 5+10-5 mol/L with leaves of C. mimosoides; thus, they would be an important tool for the identification of a receptor protein for potassium isolespedezate.

IT 478701-08-5P
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)

RN 478701-08-5 CAPLUS
CN 2-Propenoic acid, 2-[[6-[[3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-1-oxopropyl]amino]-6-deoxy-β-D-galactopyranosyl]oxy]-3-(4-hydroxyphenyl)-, monopotassium salt, (2Z)- (9CI) (CA INDEX NAME)

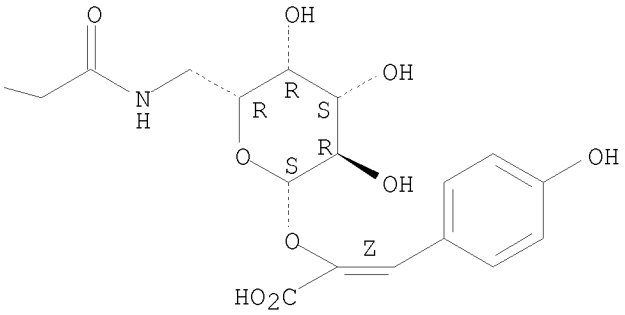
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

PAGE 1-A



● K

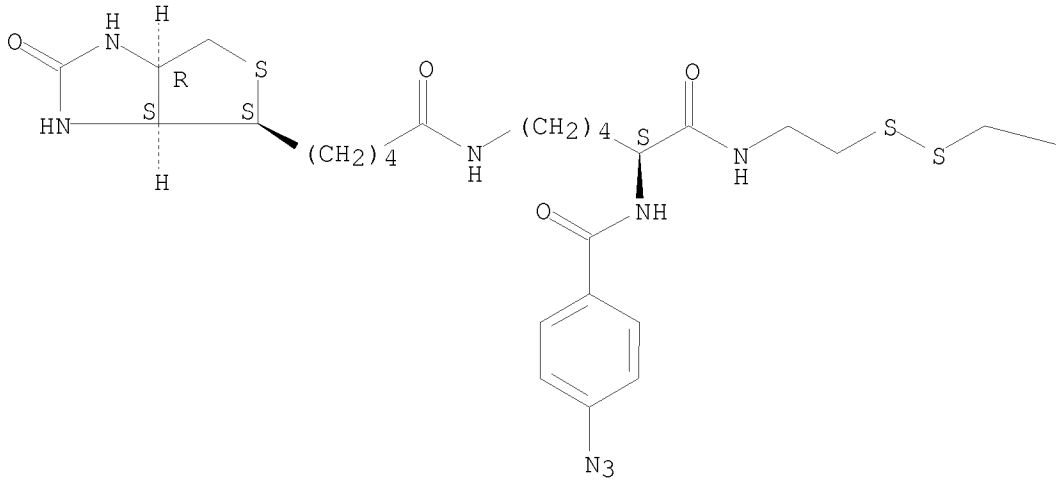
PAGE 1-B



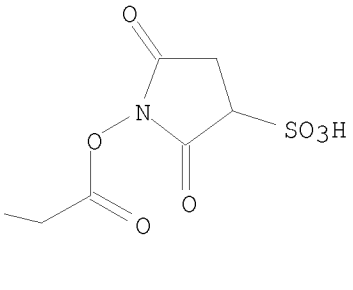
IT 179763-59-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)
RN 179763-59-8 CAPLUS
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



● Na

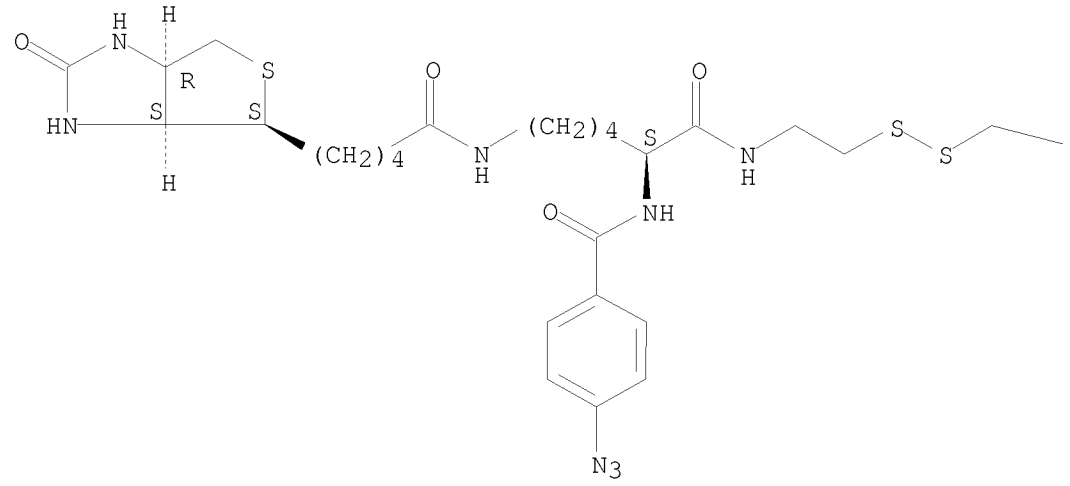
IT 478701-22-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(syntheses of novel photoaffinity probes based on potassium isolespedezate for bioorg. studies on nyctinasty of leguminous plants)

RN 478701-22-3 CAPLUS

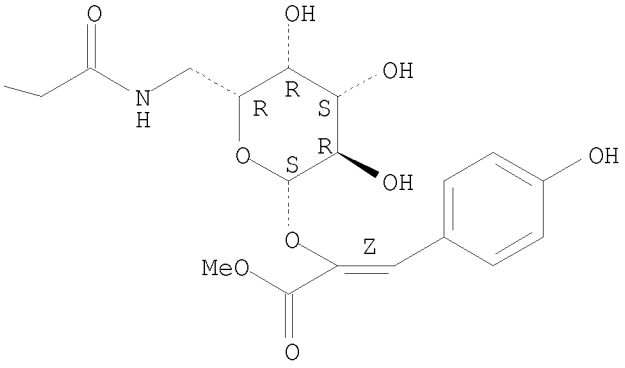
CN 2-Propenoic acid, 2-[[6-[[3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-1-oxopropyl]amino]-6-deoxy-β-D-galactopyranosyl]oxy]-3-(4-hydroxyphenyl)-, methyl ester, (2Z)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:574920 CAPLUS
DOCUMENT NUMBER: 137:140337
TITLE: Preparation of hydroxyhexafluoropropylarenes as malonyl-CoA decarboxylase inhibitors.
INVENTOR(S): Arrhenius, Thomas; Chen, Mi; Cheng, Jie Fei; Haramura, Masayuki; Huang, Yujin; Nadzan, Alex; Tith, Sovouthy; Wallace, David; Zhang, Lin; Brown, Steve; Harmon, Charles
PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058690	A2	20020801	WO 2002-US1814	20020122 <--
WO 2002058690	A3	20030424		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002236830	A1	20020806	AU 2002-236830	20020122 <--
EP 1353662	A2	20031022	EP 2002-703196	20020122 <--
EP 1353662	B1	20070418		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004521113	T	20040715	JP 2002-559024	20020122 <--
JP 4503232	B2	20100714		
AT 359773	T	20070515	AT 2002-703196	20020122
ES 2284817	T3	20071116	ES 2002-703196	20020122
CN 101596191	A	20091209	CN 2009-10139558	20020126
US 20040087627	A1	20040506	US 2003-466856	20030721 <--
US 7385063	B2	20080610		
JP 2008007510	A	20080117	JP 2007-185377	20070717
JP 2008001719	A	20080110	JP 2007-227557	20070903
JP 2008100998	A	20080501	JP 2007-267407	20071015
JP 2010065054	A	20100325	JP 2009-261692	20091117
JP 2010077150	A	20100408	JP 2009-270935	20091130
PRIORITY APPLN. INFO.:			US 2001-264552P P	20010126
			US 2001-265380P P	20010126
			JP 2002-559024 A3	20020122
			JP 2002-563930 A3	20020122
			WO 2002-US1814 W	20020122
			CN 2002-803537 A3	20020126
			JP 2002-559032 A3	20020126

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

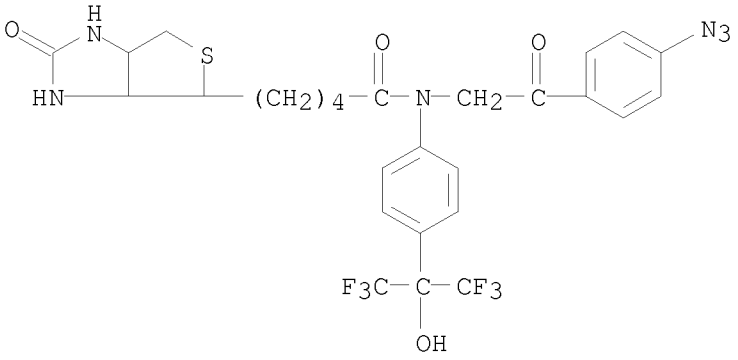
OTHER SOURCE(S): CASREACT 137:140337; MARPAT 137:140337

AB A method for the inhibition of malonyl-CoA decarboxylase (MCD) comprises administration of W[C(OH)(CF3)2] [W = (substituted) Ph, pyridinyl, pyrazolyl, furyl, thienyl, pyrrolyl]. Thus, 4-(EtNH)C6H4[C(OH)(CF3)2], poly(4-vinylpyridine), and isobutyryl chloride were stirred 14 h in CH2Cl2 to give 41% 4-[Me2CHCO(Et)N]C6H4[C(OH)(CF3)2]. Tested title compds. inhibited MCD with IC50 = 0.007-0.557 μM.

IT 444620-98-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of hydroxyhexafluoropropylarenes as malonyl-CoA decarboxylase inhibitors)

RN 444620-98-8 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-(4-azidophenyl)-2-oxoethyl]hexahydro-2-oxo-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:105070 CAPLUS
DOCUMENT NUMBER: 134:157723
TITLE: Synthesis and characterization of insulin-like growth factor (IGF)-1 photoprobes selective for the IGF-binding proteins (IGFBPs) photoaffinity labeling of the IGF-binding domain on IGFBP-2
AUTHOR(S): Horney, Mark J.; Evangelista, Caroline A.; Rosenzweig, Steven A.
CORPORATE SOURCE: Department of Cell and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, Charleston, SC, 29425, USA
SOURCE: Journal of Biological Chemistry (2001), 276(4), 2880-2889
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Elevated insulin-like growth factor (IGF)-1 levels are prognostic for the development of prostate and breast cancers and exacerbate the complications of diabetes. In each case, perturbation of the balance between IGF-1/2, the IGF-1 receptor, and the IGF-binding proteins (IGF-BPs) leads to elevated IGF-1 sensitivity. Blockade of IGF action in these diseases would be clin. significant. Unfortunately, effective IGF antagonists are currently unavailable. The IGFBPs exhibit high affinity and specificity for the IGFs and serve as natural IGF antagonists, limiting their mitogenic/anti-apoptotic effects. As an initial step in designing IGFBP-based agents that antagonize IGF action, we have begun to analyze the structure of the IGF-binding site on IGFBP-2. To this end, two IGF-1 photoprobes, NαGly1-(4-azidobenzoyl)-IGF-1 (abG1IGF-1) and NαGly1-([2-6-(biotinamido)-2(p-azidobenzamido)hexanoamido]ethyl-1,3'-dithiopropionoyl)-IGF-1 (bedG1IGF-1), selective for the IGFBPs were synthesized by derivatization of the α-amino group of Gly1, known to be part of the IGFBP-binding domain. Mass spectrometric anal. of the reduced, alkylated, and trypsin-digested abG1IGF-1·recombinant human IGFBP-2 (rhIGFBP-2) complex indicated photoincorporation near the carboxyl terminus of rhIGFBP-2, between residues 266 and 287. Mass spectrometric anal. of avidin-purified tryptic peptides of the bedG1IGF-1·rhIGFBP-2 complex revealed photoincorporation within residues 212-227. Taken together, these data indicate that the

IGFBP-binding domain on IGF-1 contacts the distal third of IGFBP-2, providing evidence that the IGF-1-binding domain is located within the C terminus of IGFBP-2.

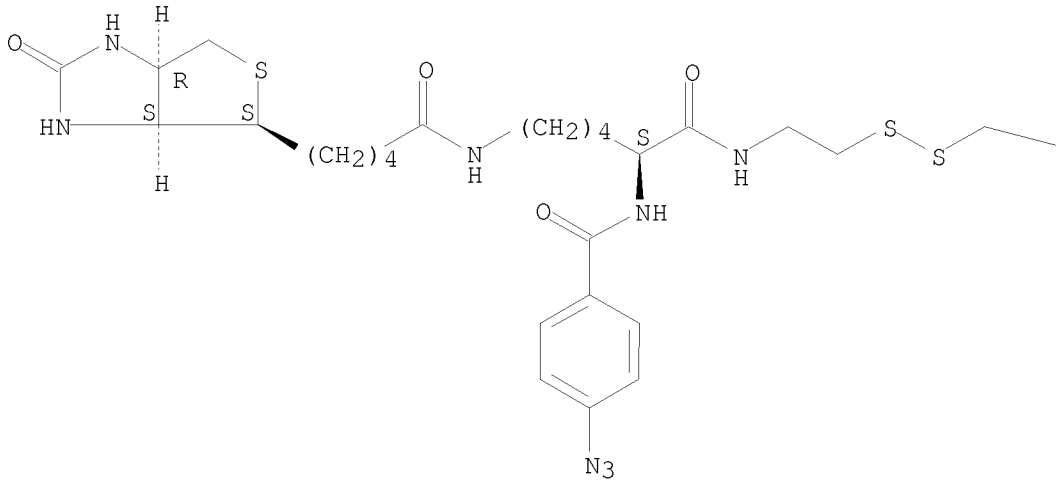
IT 179763-59-8DP, Sulfo-SBED, reaction products with IGF-1
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(synthesis and characterization of insulin-like growth factor (IGF)-1 photoprobes selective for IGF-binding proteins (IGFBPs) photoaffinity labeling of IGF-binding domain on IGFBP-2)

RN 179763-59-8 CAPLUS

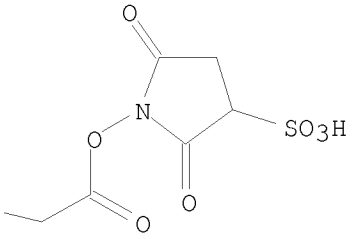
CN Propanoic acid, 3-[[2-[[(2S)-2-[(4-azidobenzoyl)amino]-6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]ethyl]dithio]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, sodium salt (1:1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

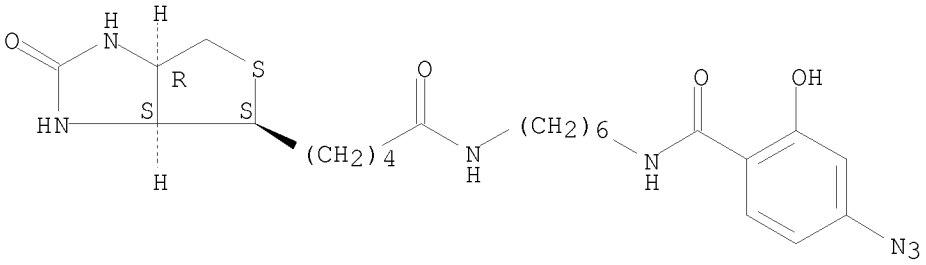
L8 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:635337 CAPLUS
DOCUMENT NUMBER: 133:247746
TITLE: Oligonucleotide immobilization on micropatterned streptavidin surfaces
AUTHOR(S): Sabanayagam, Chandran R.; Smith, Cassandra L.; Cantor, Charles R.
CORPORATE SOURCE: Center for Advanced Biotechnology, Boston University, Boston, MA, 02215, USA
SOURCE: Nucleic Acids Research (2000), 28(8), e33, ii-iv
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors describe a simple procedure for photolithog. patterning of streptavidin on silicon substrates. Long wavelength UV (365 nm) light was used to direct the covalent attachment of photoactivatable biotin onto silylated silicon wafers. Fluorescently labeled streptavidin was found to bind only in areas exposed to the light. The authors used this procedure to selectively pattern streptavidin inside microwells etched in silicon, and the authors investigated the binding characteristics of biotinylated oligonucleotides of lengths, 54 and 99 bases. The binding curves were found to fit the functional form of the Langmuir isotherm, with binding saturation proportional to n-3/4.

IT 288860-12-8
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)
(oligonucleotide immobilization on micropatterned streptavidin surfaces)

RN 288860-12-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[6-[(4-azido-2-hydroxybenzoyl)amino]hexyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>
=> exit
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	59.20	877.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.65	-34.00

STN INTERNATIONAL LOGOFF AT 17:50:22 ON 04 OCT 2010